

Qobad Shafiee

List of Publications by Year in descending order

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82
papers

4,787
citations

257450

24
h-index

243625

44
g-index

82
all docs

82
docs citations

82
times ranked

3074
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Secondary Control for Islanded Microgrids – A Novel Approach. IEEE Transactions on Power Electronics, 2014, 29, 1018-1031.	7.9	854
2	Secondary Frequency and Voltage Control of Islanded Microgrids via Distributed Averaging. IEEE Transactions on Industrial Electronics, 2015, 62, 7025-7038.	7.9	760
3	Hierarchical Control for Multiple DC-Microgrids Clusters. IEEE Transactions on Energy Conversion, 2014, 29, 922-933.	5.2	338
4	Review on Control of DC Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, , 1-1.	5.4	289
5	Droop-Free Distributed Control for AC Microgrids. IEEE Transactions on Power Electronics, 2016, 31, 1600-1617.	7.9	248
6	On the Secondary Control Architectures of AC Microgrids: An Overview. IEEE Transactions on Power Electronics, 2020, 35, 6482-6500.	7.9	218
7	Robust Networked Control Scheme for Distributed Secondary Control of Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2014, 61, 5363-5374.	7.9	211
8	Robust Frequency Control of Microgrids Using an Extended Virtual Synchronous Generator. IEEE Transactions on Power Systems, 2018, 33, 6289-6297.	6.5	191
9	A Multi-Functional Fully Distributed Control Framework for AC Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 3247-3258.	9.0	123
10	Intelligent Demand Response Contribution in Frequency Control of Multi-Area Power Systems. IEEE Transactions on Smart Grid, 2018, 9, 1282-1291.	9.0	120
11	Seamless Transition of Microgrids Operation From Grid-Connected to Islanded Mode. IEEE Transactions on Smart Grid, 2020, 11, 2106-2114.	9.0	115
12	Plug-and-Play Robust Voltage Control of DC Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 6886-6896.	9.0	104
13	Plug-and-Play Voltage Stabilization in Inverter-Interfaced Microgrids via a Robust Control Strategy. IEEE Transactions on Control Systems Technology, 2017, 25, 781-791.	5.2	87
14	Decentralized Optimal Frequency Control in Autonomous Microgrids. IEEE Transactions on Power Systems, 2019, 34, 2345-2353.	6.5	77
15	Distributed secondary control for islanded MicroGrids - A networked control systems approach. , 2012, , .		64
16	Modeling, stability analysis and active stabilization of multiple DC-microgrid clusters. , 2014, , .		60
17	A Distributed Control Framework for Integrated Photovoltaic-Battery-Based Islanded Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 2837-2848.	9.0	60
18	Decentralized Model Predictive Control of DC Microgrids With Constant Power Load. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 451-460.	5.4	54

#	ARTICLE	IF	CITATIONS
19	Distributed Control of Low-Voltage Resistive AC Microgrids. IEEE Transactions on Energy Conversion, 2019, 34, 573-584.	5.2	49
20	Stability, power sharing, & distributed secondary control in droop-controlled microgrids. , 2013, , .		47
21	A Zero-Free Event-Triggered Secondary Control for AC Microgrids. IEEE Transactions on Smart Grid, 2020, 11, 1905-1916.	9.0	45
22	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
23	Interconnected Autonomous AC Microgrids via Back-to-Back Converters-Part I: Small-Signal Modeling. IEEE Transactions on Power Electronics, 2020, 35, 4728-4740.	7.9	44
24	Distributed consensus-based control of multiple DC-microgrids clusters. , 2014, , .		40
25	Distributed and decentralized control architectures for converter-interfaced microgrids. Chinese Journal of Electrical Engineering, 2017, 3, 41-52.	3.4	34
26	Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. IEEE Transactions on Power Systems, 2020, 35, 508-515.	6.5	34
27	Control of a super-capacitor energy storage system to mimic inertia and transient response improvement of a direct current micro-grid. Journal of Energy Storage, 2020, 32, 101788.	8.1	30
28	Robust High-Rate Secondary Control of Microgrids With Mitigation of Communication Impairments. IEEE Transactions on Power Electronics, 2020, 35, 12486-12496.	7.9	30
29	Hierarchical control for multiple DC-microgrids clusters. , 2014, , .		25
30	Adaptive virtual impedance scheme for selective compensation of voltage unbalance and harmonics in microgrids. , 2015, , .		23
31	Interconnected Autonomous ac Microgrids via Back-to-Back Converters-Part II: Stability Analysis. IEEE Transactions on Power Electronics, 2020, 35, 11801-11812.	7.9	22
32	An Instantaneous Event-Triggered Hz-Watt Control for Microgrids. IEEE Transactions on Power Systems, 2019, 34, 3616-3625.	6.5	20
33	Low-Frequency Small-Signal Modeling of Interconnected AC Microgrids. IEEE Transactions on Power Systems, 2021, 36, 2786-2797.	6.5	20
34	Team-oriented adaptive droop control for autonomous AC microgrids. , 2014, , .		18
35	Robust decentralized voltage control for uncertain DC microgrids. International Journal of Electrical Power and Energy Systems, 2021, 125, 106468.	5.5	18
36	Optimal adaptive droop control for effective load sharing in AC microgrids. , 2016, , .		16

#	ARTICLE	IF	CITATIONS
37	Decentralized Frequency Control of AC Microgrids: An Estimation-Based Consensus Approach. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5183-5191.	5.4	16
38	Decentralized Model Predictive load-frequency control for deregulated power systems in a tough situation. , 2011, , .		15
39	An Emergency Active and Reactive Power Exchange Solution for Interconnected Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5206-5218.	5.4	12
40	Decentralized Voltage Stabilization and Robust Performance Satisfaction of Islanded Inverter-Interfaced Microgrids. IEEE Systems Journal, 2021, 15, 1893-1904.	4.6	12
41	Online generalized droop-based demand response for frequency control in islanded microgrids. Electrical Engineering, 2019, 101, 409-420.	2.0	11
42	On the Design of Event-Triggered Consensus-Based Secondary Control of DC Microgrids. IEEE Transactions on Power Systems, 2022, 37, 3834-3846.	6.5	11
43	Online Kron Reduction for Economical Frequency Control of Microgrids. IEEE Transactions on Industrial Electronics, 2020, 67, 8461-8471.	7.9	10
44	A pilot-based unit protection scheme for meshed microgrids using apparent resistance estimation. International Journal of Electrical Power and Energy Systems, 2021, 126, 106564.	5.5	10
45	Robust Performance Satisfaction of DC Microgrids Using a Decentralized Optimal Voltage Control Strategy. IEEE Systems Journal, 2022, 16, 464-474.	4.6	10
46	Linear Quadratic Regulator Based Smooth Transition Between Microgrid Operation Modes. IEEE Transactions on Smart Grid, 2021, 12, 4854-4864.	9.0	10
47	Modeling and robust structural control design for hybrid AC/DC microgrids with general topology. International Journal of Electrical Power and Energy Systems, 2022, 139, 108012.	5.5	10
48	Estimation-based Consensus Approach for Decentralized Frequency Control of AC Microgrids. , 2019, , .		9
49	Comprehensive small-signal modeling and Prony analysis-based validation of synchronous interconnected microgrids. Energy Reports, 2021, 7, 6677-6689.	5.1	9
50	Modeling of voltage source converters in microgrids using equivalent thevenin circuit. , 2018, , .		8
51	Massive Open Online Labs (MOOLs): An Innovative Solution to Achieving SDGs in the Global South. , 2019, , .		8
52	Robust control of a DC-DC boost converter: H_{∞}^2 and $H_{\infty}^{\hat{\alpha}}$ techniques. , 2017, , .		8
53	Decentralized Voltage Control of Autonomous DC Microgrids With Robust Performance Approach. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5508-5520.	5.4	7
54	Cooperative frequency control for autonomous AC Microgrids. , 2015, , .		6

#	ARTICLE	IF	CITATIONS
55	Event-triggered voltage control of inverter-based microgrids. , 2018, , .		6
56	Decentralized Robust Voltage Control of Islanded AC Microgrids: An LMI-Based H_{∞} Approach. , 2020, , .		6
57	Droop-free team-oriented control for AC distribution systems. , 2015, , .		5
58	Model Validation of Power Electronics-based Networked Micro-grids by Prony Analysis. , 2019, , .		5
59	An Analytical Approach for Design of a Cross-Connected Fibonacci Switched Capacitor Converter. Energies, 2020, 13, 431.	3.1	5
60	Scalable PI Voltage Stabilization in DC Microgrids. IFAC-PapersOnLine, 2020, 53, 12882-12887.	0.9	5
61	A novel robust communication algorithm for distributed secondary control of islanded MicroGrids. , 2013, , .		4
62	Modeling and control of flexible HEV charging station upgraded with flywheel energy storage. , 2014, , .		4
63	Distributed voltage control and load sharing for inverter-interfaced microgrid with resistive lines. , 2016, , .		4
64	Kron Reduction and L_2 -Stability for Plug-and-Play Frequency Control of Microgrids. , 2018, , .		4
65	Improved grid operation through power smoothing control strategies utilizing dedicated energy storage at an electric vehicle charging station. , 2016, , .		3
66	On the Design of Suboptimal Controller for DC Microgrids with CPL. Energy Procedia, 2017, 141, 611-618.	1.8	3
67	Need-Based Communication in Fully-Distributed Secondary Control of DC Microgrids. , 2019, , .		3
68	Economical Secondary Control of DC Microgrids. , 2020, , .		3
69	A fuzzy inference model for distributed secondary control of islanded microgrids. , 2016, , .		2
70	Model Predictive and SDRE Control of DC Microgrids with Constant Power Loads: A Comparative Study. , 2018, , .		2
71	Dynamic Performance Improvement of DC Microgrids Using Virtual Impedance. , 2018, , .		2
72	Decentralized Multivariable Vector Current Control of Grid-connected Voltage Source Inverters. IFAC-PapersOnLine, 2020, 53, 12410-12415.	0.9	2

#	ARTICLE	IF	CITATIONS
73	Generalized droop characteristic-based Demand response and secondary frequency control coordination in an isolated microgrid. , 2017, , .		1
74	Decentralized Scalable Robust Voltage Control for Islanded AC Microgrids with General Topology. , 2020, , .		1
75	Event-Triggered Fully-Distributed Secondary Control of Islanded DC Microgrids Using Pre-defined Event Condition. , 2021, , .		1
76	Performance and Vulnerability of Distributed Secondary Control of AC Microgrids under Cyber-Attack. , 2021, , .		1
77	Robust single primary control loop for AC microgrids. , 2018, , .		0
78	Optimal Robust Control of LCL-type Grid-Connected Voltage Source Inverters against Grid Impedance Fluctuations. , 2019, , .		0
79	Adaptive Backstepping Design for Stabilizing Synchronverter Control Topology in AC Microgrids. , 2019, , .		0
80	Comprehensive Small-Signal Modeling and Prony Analysis-Based Validation of Synchronous Interconnected Microgrids. SSRN Electronic Journal, 0, , .	0.4	0
81	Guest Editorial Model Predictive Control in Energy Conversion Systems. IEEE Transactions on Energy Conversion, 2021, 36, 1311-1312.	5.2	0
82	Data-driven Predictive Control of Buck Converters Under Load and Input Voltage Uncertainties. , 2022, , .		0