

Hamid Reza

List of Publications by Year in descending order

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89
papers

3,691
citations

117571

34
h-index

143943

57
g-index

90
all docs

90
docs citations

90
times ranked

2561
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliability/cost-based multi-objective Pareto optimal design of stand-alone wind/PV/FC generation microgrid system. Energy, 2016, 115, 1022-1041.	4.5	286
2	A Decentralized Power Management and Sliding Mode Control Strategy for Hybrid AC/DC Microgrids including Renewable Energy Resources. IEEE Transactions on Industrial Informatics, 2024, , 1-1.	7.2	169
3	Distributed Noise-Resilient Secondary Voltage and Frequency Control for Islanded Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 3780-3790.	6.2	144
4	Power Calculation Using RBF Neural Networks to Improve Power Sharing of Hierarchical Control Scheme in Multi-DER Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 1217-1225.	3.7	135
5	A generalized descriptor-system robust H ∞ control of autonomous microgrids to improve small and large signal stability considering communication delays and load nonlinearities. International Journal of Electrical Power and Energy Systems, 2017, 92, 63-82.	3.3	124
6	A Novel ANFIS-Based Islanding Detection for Inverter-Interfaced Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 4411-4424.	6.2	118
7	Detection of False Data Injection Cyber-Attacks in DC Microgrids Based on Recurrent Neural Networks. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5294-5310.	3.7	114
8	Support Vector Machine-Based Islanding and Grid Fault Detection in Active Distribution Networks. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2385-2403.	3.7	108
9	Decentralized Sliding Mode Control of WG/PV/FC Microgrids Under Unbalanced and Nonlinear Load Conditions for On- and Off-Grid Modes. IEEE Systems Journal, 2018, 12, 3108-3119.	2.9	106
10	Multi-objective optimal power management and sizing of a reliable wind/PV microgrid with hydrogen energy storage using MOPSO. Journal of Intelligent and Fuzzy Systems, 2017, 32, 1753-1773.	0.8	104
11	Nonlinear Load Sharing and Voltage Compensation of Microgrids Based on Harmonic Power-Flow Calculations Using Radial Basis Function Neural Networks. IEEE Systems Journal, 2018, 12, 2749-2759.	2.9	101
12	Anti-Islanding Protection of PV-Based Microgrids Consisting of PHEVs Using SVMs. IEEE Transactions on Smart Grid, 2020, 11, 483-500.	6.2	96
13	Three-phase AC/DC power-flow for balanced/unbalanced microgrids including wind/solar, droop-controlled and electronically-coupled distributed energy resources using radial basis function neural networks. IET Power Electronics, 2017, 10, 313-328.	1.5	95
14	Application of RBF neural networks and unscented transformation in probabilistic power-flow of microgrids including correlated wind/PV units and plug-in hybrid electric vehicles. Simulation Modelling Practice and Theory, 2017, 72, 51-68.	2.2	89
15	Real-time verification of new controller to improve small/large-signal stability and fault ride-through capability of multi- DER microgrids. IET Generation, Transmission and Distribution, 2016, 10, 3068-3084.	1.4	81
16	Islanding Detection of Synchronous Generator-Based DGs using Rate of Change of Reactive Power. IEEE Systems Journal, 2019, 13, 4344-4354.	2.9	80
17	Performance Improvement of Multi-DER Microgrid for Small- and Large-Signal Disturbances and Nonlinear Loads: Novel Complementary Control Loop and Fuzzy Controller in a Hierarchical Droop-Based Control Scheme. IEEE Systems Journal, 2018, 12, 444-451.	2.9	79
18	MOPSO/FDMT ∞ -based Pareto-optimal solution for coordination of overcurrent relays in interconnected networks and multi- DER microgrids. IET Generation, Transmission and Distribution, 2018, 12, 2871-2886.	1.4	79

#	ARTICLE	IF	CITATIONS
19	Fuzzy unscented transform for uncertainty quantification of correlated wind/PV microgrids: possibilistic probabilistic power flow based on RBFNNs. IET Renewable Power Generation, 2017, 11, 867-877.	1.7	76
20	Optimal Sizing of a Stand-alone Wind/Photovoltaic Generation Unit using Particle Swarm Optimization. Simulation, 2009, 85, 89-99.	1.1	75
21	Unbalanced harmonic power sharing and voltage compensation of microgrids using radial basis function neural network-based harmonic power flow calculations for distributed and decentralised control structures. IET Generation, Transmission and Distribution, 2018, 12, 1518-1530.	1.4	75
22	A Decentralized Robust Mixed H_2/H_∞ Voltage Control Scheme to Improve Small/Large-Signal Stability and FRT Capability of Islanded Multi-DER Microgrid Considering Load Disturbances. IEEE Systems Journal, 2018, 12, 2610-2621.	2.9	68
23	A new current limiting strategy and fault model to improve fault ride-through capability of inverter interfaced DERs in autonomous microgrids. Sustainable Energy Technologies and Assessments, 2017, 24, 71-81.	1.7	64
24	Gibbs Phenomenon-Based Hybrid Islanding Detection Strategy for VSC-Based Microgrids Using Frequency Shift, THD_U , and RMS_U . IEEE Transactions on Smart Grid, 2019, 10, 5479-5491.	6.2	57
25	Security/cost-based optimal allocation of multi-type FACTS devices using multi-objective particle swarm optimization. Simulation, 2012, 88, 999-1010.	1.1	56
26	Cooperative Fault-Tolerant Control of Microgrids Under Switching Communication Topology. IEEE Transactions on Smart Grid, 2020, 11, 1866-1879.	6.2	56
27	Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. IEEE Transactions on Power Systems, 2020, 35, 3774-3789.	4.6	51
28	False Data Injection Cyber-Attacks Mitigation in Parallel DC/DC Converters Based on Artificial Neural Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 717-721.	2.2	47
29	Power Management of Microgrids Including PHEVs Based on Maximum Employment of Renewable Energy Resources. IEEE Transactions on Industry Applications, 2020, 56, 5299-5307.	3.3	43
30	Localized Protection of Radial DC Microgrids With High Penetration of Constant Power Loads. IEEE Systems Journal, 2021, 15, 4145-4156.	2.9	42
31	Resilient Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. IEEE Transactions on Smart Grid, 2020, 11, 3871-3884.	6.2	40
32	Resilient Synchronization of Voltage/Frequency in AC Microgrids Under Deception Attacks. IEEE Systems Journal, 2021, 15, 2125-2136.	2.9	40
33	Generalized three phase robust load-flow for radial and meshed power systems with and without uncertainty in energy resources using dynamic radial basis functions neural networks. Journal of Cleaner Production, 2018, 174, 96-113.	4.6	39
34	Secure MPC/ANN-Based False Data Injection Cyber-Attack Detection and Mitigation in DC Microgrids. IEEE Systems Journal, 2022, 16, 1487-1498.	2.9	37
35	Eigenvalue, Robustness and Time Delay Analysis of Hierarchical Control Scheme in Multi-DER Microgrid to Enhance Small/Large-Signal Stability Using Complementary Loop and Fuzzy Logic Controller. Journal of Circuits, Systems and Computers, 2017, 26, 1750099.	1.0	35
36	ANFIS-Based Peak Power Shaving/Curtailment in Microgrids Including PV Units and BESSs. Energies, 2018, 11, 2953.	1.6	34

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37	Robust Sliding Mode and Mixed H_2/H_∞ Output Feedback Primary Control of AC Microgrids. IEEE Systems Journal, 2021, 15, 2420-2431.	2.9	32
38	Resiliency/Cost-Based Optimal Design of Distribution Network to Maintain Power System Stability Against Physical Attacks: A Practical Study Case. IEEE Access, 2021, 9, 43862-43875.	2.6	31
39	Power System Security Improvement by Using Differential Evolution Algorithm Based FACTS Allocation. , 2008, , .		30
40	Harmonic optimization in multi-level inverters using harmony search algorithm. , 2008, , .		29
41	Resilient cooperative control of AC microgrids considering relative state-dependent noises and communication time-delays. IET Renewable Power Generation, 2020, 14, 1321-1331.	1.7	28
42	Adaptive inertia emulation control for high-speed flywheel energy storage systems. IET Generation, Transmission and Distribution, 2020, 14, 5047-5059.	1.4	27
43	A Fuse Saving Scheme for DC Microgrids With High Penetration of Renewable Energy Resources. IEEE Access, 2020, 8, 137407-137417.	2.6	25
44	A review on intentional controlled islanding in smart power systems and generalized framework for ICI in microgrids. International Journal of Electrical Power and Energy Systems, 2020, 118, 105709.	3.3	21
45	Locating high-impedance faults in DC microgrid clusters using support vector machines. Applied Energy, 2022, 308, 118338.	5.1	21
46	Secure Control of DC Microgrids for Instant Detection and Mitigation of Cyber-Attacks Based on Artificial Intelligence. IEEE Systems Journal, 2022, 16, 2580-2591.	2.9	20
47	Local Fault Location in Meshed DC Microgrids Based On Parameter Estimation Technique. IEEE Systems Journal, 2022, 16, 1606-1615.	2.9	19
48	Dynamic Stabilization of DC Microgrids Using ANN-Based Model Predictive Control. IEEE Transactions on Energy Conversion, 2022, 37, 999-1010.	3.7	19
49	Mathematical morphology-based local fault detection in DC Microgrid clusters. Electric Power Systems Research, 2021, 192, 106981.	2.1	17
50	OC/OL Protection of Droop-Controlled and Directly Voltage-Controlled Microgrids Using TMF/ANN-Based Fault Detection and Discrimination. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3254-3265.	3.7	17
51	Integrated Nonlinear Hierarchical Control and Management of Hybrid AC/DC Microgrids. IEEE Systems Journal, 2022, 16, 902-913.	2.9	17
52	Distributed LMI-based control of heterogeneous microgrids considering fixed time-delays and switching topologies. IET Renewable Power Generation, 2020, 14, 2068-2078.	1.7	17
53	Smart Grid Monitoring by Wireless Sensors Using Binary Logistic Regression. Energies, 2020, 13, 3974.	1.6	15
54	Adaptive backstepping control for master-slave AC microgrid in smart island. Energy, 2022, 246, 123282.	4.5	15

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55	A novel approach for online fault detection in HVDC converters. , 2008, , .		14
56	Notice of Violation of IEEE Publication Principles: A Hybrid ANFIS/ABC-based Online Selective Harmonic Elimination Switching Pattern for Cascaded Multi-level Inverters of Microgrids. IEEE Transactions on Industrial Electronics, 2024, , 1-1.	5.2	14
57	Real-Time FPGA-Based HIL Emulator of Power Electronics Controllers Using NI PXI for DFIG Studies. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2005-2019.	3.7	14
58	Robust Distributed Disturbance-Resilient H_{∞} -Based Control of Off-Grid Microgrids With Uncertain Communications. IEEE Systems Journal, 2021, 15, 2895-2905.	2.9	14
59	Smart V2G/G2V Charging Strategy for PHEVs in AC Microgrids Based on Maximizing Battery Lifetime and RER/DER Employment. IEEE Systems Journal, 2021, 15, 4907-4917.	2.9	14
60	Optimal multi-type FACTS allocation using genetic algorithm to improve , power system security. , 2008, , .		13
61	Robust Hierarchical Control of VSC-Based Off-Grid AC Microgrids to Enhancing Stability and FRT Capability Considering Time-Varying Delays. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7159-7172.	3.7	12
62	Real-time simulator and offline/online closed-loop test bed for power system modeling and development. International Journal of Electrical Power and Energy Systems, 2020, 122, 106203.	3.3	12
63	An Enhanced Emulated Inertia Control for Grid-Connected PV Systems with HESS in a Weak Grid. Energies, 2021, 14, 1721.	1.6	12
64	DC Fault Current Analyzing, Limiting, and Clearing in DC Microgrid Clusters. Energies, 2021, 14, 6337.	1.6	12
65	A Charging Strategy for PHEVs Based on Maximum Employment of Renewable Energy Resources in Microgrid. , 2019, , .		11
66	Three dimensional Pareto Optimal solution to design a hybrid stand-alone wind/PV generation system with hydrogen energy storage using multi-objective Particle Swarm Optimization. , 2012, , .		10
67	Conceptual Design of IoT-Based AMR Systems Based on IEC 61850 Microgrid Communication Configuration Using Open-Source Hardware/Software IED. Energies, 2019, 12, 4281.	1.6	10
68	Determining Impact of Lightning Strike Location on Failures in Transmission Network Elements Using Fuzzy Decision-Making. IEEE Systems Journal, 2020, 14, 2665-2675.	2.9	9
69	EMD/HT $\hat{\epsilon}$ -based local fault detection in DC microgrid clusters. IET Smart Grid, 2022, 5, 177-188.	1.5	9
70	Distributed Finite-Time Fault-Tolerant Control of Isolated AC Microgrids Considering Input Constraints. IEEE Transactions on Smart Grid, 2022, 13, 4525-4537.	6.2	9
71	Voltage and Frequency Consensusability of Autonomous Microgrids Over Fading Channels. IEEE Transactions on Energy Conversion, 2021, 36, 149-158.	3.7	8
72	A novel approach for optimizing dead time of extra high voltage transmission lines. , 2008, , .		6

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73	Current Compensation in Grid-Connected VSCs using Advanced Fuzzy Logic-based Fluffy-Built SVPWM Switching. <i>Energies</i> , 2020, 13, 1259.	1.6	6
74	Robust Cooperative Control of Isolated AC Microgrids Subject to Unreliable Communications: A Low-Gain Feedback Approach. <i>IEEE Systems Journal</i> , 2022, 16, 55-66.	2.9	6
75	Perspectives and Intensification of Energy Efficiency in Commercial and Residential Buildings Using Strategic Auditing and Demand-Side Management. <i>Energies</i> , 2019, 12, 4539.	1.6	5
76	Power System Stabilization Improvement by Using PSO-based UPFC. , 2008, , .		4
77	Resilient distributed control of BESSs and voltage source converter-based microgrids considering switching topologies and non-uniform time-varying delays. <i>IET Generation, Transmission and Distribution</i> , 2020, 14, 5060-5071.	1.4	4
78	Real-Time Implementation of Asynchronous Machine using LabVIEW RTX and FPGA Module. , 2018, , .		3
79	An Open-Source Hardware/Software IED based on IoT and IEC 61850 Standard. , 2019, , .		3
80	Microgrid control strategies. , 2021, , 7-58.		3
81	Optimized harmonic estimation in bus transfer systems from polluted grid to DG unit using wavelet transform and radial basis functions neural networks. , 2012, , .		2
82	Hybrid Method for Islanding Detection of Distributed Generators in LV Distribution Networks. , 2019, , .		2
83	A Physical Model for Information Transmission. <i>IEEE Systems Journal</i> , 2021, 15, 2463-2469.	2.9	2
84	Performance analysis of an improved hierarchical droop-based control scheme under topological, parametric and communication uncertainties: Towards a resilient microgrid. , 2017, , .		1
85	Fault analysis. , 2021, , 129-151.		1
86	Islanding Detection in Microgrids including VSC-based Renewable/Distributed Energy Resources: An AI-based Technique. , 2018, , .		0
87	Arc Flash Incident Energy Simulation in PV Power Plant Connected to Distribution Network. , 2018, , .		0
88	Power management in hybrid microgrids. , 2021, , 313-330.		0
89	Microgrid protection. , 2021, , 191-248.		0