

Hatem H Zeineldin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Formation of Islanded Droop-Based Microgrids With Optimum Loadability. IEEE Transactions on Power Systems, 2022, 37, 1564-1576.	6.5	10
2	A Multistage Passive Islanding Detection Method for Synchronous-Based Distributed Generation. IEEE Transactions on Industrial Informatics, 2022, 18, 2078-2088.	11.3	9
3	An Efficient Vehicle-to-Vehicle (V2V) Energy Sharing Framework. IEEE Internet of Things Journal, 2022, 9, 5315-5328.	8.7	34
4	Single-Phase Transfer Delay FLL With Enhanced Performance for Power System Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 349-360.	5.4	6
5	A Novel Multiport Converter Interface for Solar Panels of CubeSat. IEEE Transactions on Power Electronics, 2022, 37, 629-643.	7.9	9
6	A Stable Matching Game for V2V Energy Sharing – A User Satisfaction Framework. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7601-7613.	8.0	20
7	A Comprehensive Review on CubeSat Electrical Power System Architectures. IEEE Transactions on Power Electronics, 2022, 37, 3161-3177.	7.9	24
8	A Multiobjective Secondary Control Approach for Optimal Design of DG Droop Characteristic and Control Mode for Autonomous Microgrids. IEEE Systems Journal, 2022, 16, 5445-5454.	4.6	3
9	Direct Electric Vehicle to Vehicle (V2V) Power Transfer Using On-Board Drivetrain and Motor Windings. IEEE Transactions on Industrial Electronics, 2022, 69, 10765-10775.	7.9	14
10	A Subspace Identification Technique for Real-Time Stability Assessment of Droop Based Microgrids. IEEE Transactions on Power Systems, 2022, 37, 2731-2743.	6.5	1
11	Enhancing Lifetime of 1U/2U CubeSat Electric Power System With Distributed Architecture and Power-Down Mode. IEEE Transactions on Industry Applications, 2022, 58, 901-913.	4.9	5
12	Efficient Bit Loading Algorithm for OFDM-NOMA Systems With BER Constraints. IEEE Transactions on Vehicular Technology, 2022, 71, 423-436.	6.3	9
13	A Systematic Approach for Design and Analysis of Electrified Public Bus Transit Fleets. IEEE Systems Journal, 2022, 16, 2989-3000.	4.6	7
14	A Dynamic Optimal Battery Swapping Mechanism for Electric Vehicles Using an LSTM-Based Rolling Horizon Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15218-15232.	8.0	18
15	Energy Management Strategy of a Reconfigurable Grid-Tied Hybrid AC/DC Microgrid for Commercial Building Applications. IEEE Transactions on Smart Grid, 2022, 13, 1720-1738.	9.0	20
16	Optimal Operation of Virtual Charging Systems for Plug-In Electric Vehicles. IEEE Systems Journal, 2022, 16, 4619-4628.	4.6	6
17	A Holomorphic Embedding Power Flow Algorithm for Islanded Hybrid AC/DC Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 1813-1825.	9.0	12
18	Establishing and Operating Experiential Benchmark Setups of dc Microgrids: A Guideline. IEEE Industry Applications Magazine, 2022, 28, 16-31.	0.4	2

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19	Anomaly-Based Detection of Cyberattacks on Line Current Differential Relays. IEEE Transactions on Smart Grid, 2022, 13, 4787-4800.	9.0	12
20	Selective Phase Tripping for Microgrids Powered by Synchronverter-Interfaced Renewable Energy Sources. IEEE Transactions on Power Delivery, 2021, 36, 3506-3518.	4.3	6
21	NOMA Receiver Design for Delay-Sensitive Systems. IEEE Systems Journal, 2021, 15, 5606-5617.	4.6	21
22	A Novel Power-Based Orthogonal Signal Generator for Single-Phase Systems. IEEE Transactions on Power Delivery, 2021, 36, 469-472.	4.3	16
23	Interharmonic Differential Relay With a Soft Current Limiter for the Protection of Inverter-Based Islanded Microgrids. IEEE Transactions on Power Delivery, 2021, 36, 1349-1359.	4.3	17
24	Wide-Band Current Transformers for Traveling-Waves-Based Protection Applications. IEEE Transactions on Smart Grid, 2021, 12, 845-858.	9.0	2
25	Deterministic-like solution to the non-convex economic dispatch problem. IET Generation, Transmission and Distribution, 2021, 15, 420-435.	2.5	4
26	Design of Setting Group-Based Overcurrent Protection Scheme for Active Distribution Networks Using MILP. IEEE Transactions on Smart Grid, 2021, 12, 1185-1193.	9.0	39
27	Energy Management of Grid Interconnected Multi-Microgrids Based on P2P Energy Exchange: A Data Driven Approach. IEEE Transactions on Power Systems, 2021, 36, 1546-1562.	6.5	45
28	Accurate Fault Diagnosis in Transformers Using an Auxiliary Current-Compensation-Based Framework for Differential Relays. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	11
29	A Customer-Centered Smart Charging Strategy Considering Virtual Charging System. IEEE Access, 2021, 9, 117993-118004.	4.2	4
30	Plug-in electric vehicles smart charging mechanisms for cost minimization and ancillary service provision. Journal of Engineering, 2021, 2021, 166-176.	1.1	5
31	Optimal power rescheduling in interconnected AC/DC networks to maintain the voltage stability. IET Generation, Transmission and Distribution, 2021, 15, 1702.	2.5	0
32	Optimal Day-ahead Operation for a PV-based Battery Swapping Station for Electric Vehicles. , 2021, , .		10
33	Enhanced transient response and seamless interconnection of multi-microgrids based on an adaptive control scheme. IET Renewable Power Generation, 2021, 15, 2452-2467.	3.1	4
34	Comparison of Peak Power Tracking Based Electric Power System Architectures for CubeSats. IEEE Transactions on Industry Applications, 2021, 57, 2758-2768.	4.9	13
35	A Harmonic Time-Current-Voltage Directional Relay for Optimal Protection Coordination of Inverter-Based Islanded Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 1904-1917.	9.0	28
36	Coordination of non-directional overcurrent relays and fuses in active distribution networks considering reverse short-circuit currents of DGs. IET Generation, Transmission and Distribution, 2021, 15, 2539-2553.	2.5	9

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37	A Competitive Scheduling Algorithm for Online Demand Response in Islanded Microgrids. IEEE Transactions on Power Systems, 2021, 36, 3430-3440.	6.5	28
38	Assessing the Impact of Reactive Power Droop on Inverter Based Microgrid Stability. IEEE Transactions on Energy Conversion, 2021, 36, 2380-2392.	5.2	15
39	A meshed backward/forward sweep load flow method for islanded meshed microgrids. International Transactions on Electrical Energy Systems, 2021, 31, e13127.	1.9	1
40	A Novel Unified Controller for Grid-Connected and Islanded Operation of PV-Fed Single-Stage Inverter. IEEE Transactions on Sustainable Energy, 2021, 12, 1960-1973.	8.8	12
41	Stability Evaluation of AC/DC Hybrid Microgrids Considering Bidirectional Power Flow Through the Interlinking Converters. IEEE Access, 2021, 9, 43876-43888.	4.2	13
42	Dynamic Transitional Droops for Seamless Line-Switching in Islanded Microgrids. IEEE Transactions on Power Systems, 2021, 36, 5590-5601.	6.5	7
43	Time-Domain Fault Location Algorithm for Double-Circuit Transmission Lines Connected to Large Scale Wind Farms. IEEE Access, 2021, 9, 11393-11404.	4.2	8
44	A New Multiport DC-DC Converter for DC Microgrid Applications. , 2021, , .		8
45	Protection of High-Voltage DC Grids Using Traveling-Wave Frequency Characteristics. IEEE Systems Journal, 2020, 14, 4284-4295.	4.6	34
46	Benchmark model for multi-orbital transient analysis of satellite electrical power subsystem. IET Renewable Power Generation, 2020, 14, 286-296.	3.1	3
47	Non-Communication Based Time-Current-Voltage Dual Setting Directional Overcurrent Protection for Radial Distribution Systems With DG. IEEE Access, 2020, 8, 190572-190581.	4.2	25
48	Exact Bit Error-Rate Analysis of Two-User NOMA Using QAM With Arbitrary Modulation Orders. IEEE Communications Letters, 2020, 24, 2705-2709.	4.1	47
49	New Submodule Selection Algorithm for Low Device Switching Frequency Modulation of Medium-Voltage Modular Multilevel Converter. , 2020, , .		0
50	Comparison Study of Electric Power System Architectures for CubeSat. , 2020, , .		5
51	Gain compensation approach for low-voltage ride-through and dynamic performance improvement of three-phase type-3 PLL. IET Power Electronics, 2020, 13, 1613-1621.	2.1	9
52	Blockchain Technology for Smart Grids: Decentralized NIST Conceptual Model. IEEE Access, 2020, 8, 43177-43190.	4.2	46
53	Closure to "Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems" IEEE Transactions on Smart Grid, 2020, 11, 1813-1815.	9.0	2
54	Optimal Planning of Distributed Generators and Shunt Capacitors in Isolated Microgrids With Nonlinear Loads. IEEE Transactions on Sustainable Energy, 2020, 11, 2732-2744.	8.8	27

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55	Optimal Damping Recovery Scheme for Droop-Controlled Inverter-Based Microgrids. IEEE Transactions on Smart Grid, 2020, 11, 2805-2815.	9.0	13
56	An Optimal Integrated Approach Considering Distribution System Reconfiguration and Protection Coordination. , 2020, , .		2
57	Optimization based Variable Learning Factor Least Mean Square Algorithm to Control DVR in Infected Grid Systems. , 2020, , .		0
58	An On-Board Fast Charger using New Bridgeless PFC Converter with Reduced DC-Link Capacitance. , 2020, , .		3
59	Comprehensive design and control methodology for DCâ€powered satellite electrical subsystem based on PV and battery. IET Renewable Power Generation, 2020, 14, 2202-2210.	3.1	10
60	Current differential relay characteristic for bipolar HVDC transmission line fault detection. IET Generation, Transmission and Distribution, 2020, 14, 5505-5513.	2.5	10
61	A Novel EPS Architecture for 1U/2U Cubesats with Enhanced Fault-Tolerant Capability. , 2020, , .		3
62	Exact BER Performance Analysis for Downlink NOMA Systems Over Nakagami- m Fading Channels. IEEE Access, 2019, 7, 134539-134555.	4.2	82
63	Modeling and Design of Electrical Power Subsystem for CubeSats. , 2019, , .		8
64	Optimal allocation of distributed generation for planning masterâ€slave controlled microgrids. IET Generation, Transmission and Distribution, 2019, 13, 3704-3712.	2.5	21
65	Demand Side Management Strategy for Droop-Based Autonomous Microgrids Through Voltage Reduction. IEEE Transactions on Energy Conversion, 2019, 34, 878-888.	5.2	24
66	Unified Power Flow Algorithm for Standalone AC/DC Hybrid Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 639-649.	9.0	80
67	A Modified Backward/Forward Sweep Load Flow Method for Islanded Radial Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 910-918.	9.0	86
68	Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems. IEEE Transactions on Smart Grid, 2019, 10, 2923-2935.	9.0	40
69	A Control Strategy for Voltage Unbalance Mitigation in an Islanded Microgrid Considering Demand Side Management Capability. IEEE Transactions on Smart Grid, 2019, 10, 2558-2568.	9.0	65
70	Differential Frequency Protection Scheme Based on Off-Nominal Frequency Injections for Inverter-Based Islanded Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 2107-2114.	9.0	72
71	Variable Tripping Time Differential Protection for Microgrids Considering DG Stability. IEEE Transactions on Smart Grid, 2019, 10, 2407-2415.	9.0	56
72	Optimal Coordination of Double-Inverse Overcurrent Relays for Stable Operation of DGs. IEEE Transactions on Industrial Informatics, 2019, 15, 183-192.	11.3	39

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73	A Critical Assessment of Oscillatory Modes in Multi-Microgrids Comprising of Synchronous and Inverter-Based Distributed Generation. IEEE Transactions on Smart Grid, 2019, 10, 3320-3330.	9.0	27
74	Adaptive planning approach for customer DG installations in smart distribution networks. IET Renewable Power Generation, 2018, 12, 81-89.	3.1	11
75	Protection Coordination for Microgrids With Grid-Connected and Islanded Capabilities Using Communication Assisted Dual Setting Directional Overcurrent Relays. IEEE Transactions on Smart Grid, 2018, 9, 143-151.	9.0	175
76	Efficient Algorithm for Scalable Event-Based Demand Response Management in Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 2714-2725.	9.0	18
77	Transient Stability Constrained Protection Coordination for Distribution Systems With DG. IEEE Transactions on Smart Grid, 2018, 9, 5733-5741.	9.0	45
78	Voltage-Based Protection Scheme for Faults Within Utility-Scale Photovoltaic Arrays. IEEE Transactions on Smart Grid, 2018, 9, 4367-4382.	9.0	43
79	Reduced-Order Model for Inter-Inverter Oscillations in Islanded Droop-Controlled Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 4953-4963.	9.0	50
80	Domain of Stability Characterization for Hybrid Microgrids Considering Different Power Sharing Conditions. IEEE Transactions on Energy Conversion, 2018, 33, 312-323.	5.2	37
81	Loss Reduction in Radial Distribution Networks Using a Solid-State Transformer. IEEE Transactions on Industry Applications, 2018, 54, 5474-5482.	4.9	28
82	Protection Coordination Index Enhancement Considering Multiple DG Locations Using FCL. IEEE Transactions on Power Delivery, 2017, 32, 344-350.	4.3	42
83	Semiautomatic System Domain Data Analysis: A Smart Grid Feasibility Case Study. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 3117-3127.	9.3	7
84	Conservation Voltage Reduction for Autonomous Microgrids Based on V _{dc} Droop Characteristics. IEEE Transactions on Sustainable Energy, 2017, 8, 1076-1085.	8.8	46
85	An adaptive P-f droop approach for micro-grid transition detection. , 2017, , .		2
86	Optimal Protection Coordination for Microgrids Considering N-1 Contingency. IEEE Transactions on Industrial Informatics, 2017, 13, 2270-2278.	11.3	96
87	Dynamic analysis of OLTC and voltage regulator under active network management considering different load profiles. , 2017, , .		4
88	Simplified power flow modeling approach considering on-load tap changers. , 2017, , .		3
89	Incorporating PV inverter control schemes for planning active distribution networks. , 2016, , .		0
90	Optimal coordination of directional overcurrent relays using a new time-current-voltage characteristic. , 2016, , .		6

#	ARTICLE	IF	CITATIONS
91	Closure to “Optimal Protection Coordination for Meshed Distribution Systems With DG Using Dual Setting Directional Over-Current Relays”, IEEE Transactions on Smart Grid, 2016, 7, 1757-1757.	9.0	9
92	A Novel Approach to Solve Power Flow for Islanded Microgrids Using Modified Newton Raphson With Droop Control of DG. IEEE Transactions on Sustainable Energy, 2016, 7, 493-503.	8.8	195
93	Stability Evaluation of Interconnected Multi-Inverter Microgrids Through Critical Clusters. IEEE Transactions on Power Systems, 2016, 31, 3060-3072.	6.5	101
94	Planning the Coordination of Directional Overcurrent Relays for Distribution Systems Considering DG. IEEE Transactions on Smart Grid, 2016, 7, 1642-1649.	9.0	118
95	Incorporating PV Inverter Control Schemes for Planning Active Distribution Networks. IEEE Transactions on Sustainable Energy, 2015, 6, 1224-1233.	8.8	51
96	A Parallel Capacitor Control Strategy for Enhanced FRT Capability of DFIG. IEEE Transactions on Sustainable Energy, 2015, 6, 303-312.	8.8	77
97	Distribution System Reconfiguration for Annual Energy Loss Reduction Considering Variable Distributed Generation Profiles. IEEE Transactions on Power Delivery, 2015, 30, 1677-1685.	4.3	65
98	A simple and accurate approach to solve the power flow for balanced islanded microgrids. , 2015, , .		27
99	Scheduled Perturbation to Reduce Nondetection Zone for Low Gain Sandia Frequency Shift Method. IEEE Transactions on Smart Grid, 2015, 6, 3095-3103.	9.0	17
100	A New Protection Scheme Considering Fault Ride Through Requirements for Transmission Level Interconnected Wind Parks. IEEE Transactions on Industrial Informatics, 2015, 11, 1324-1333.	11.3	59
101	Novel Coordinated Voltage Control for Hybrid Micro-Grid With Islanding Capability. IEEE Transactions on Smart Grid, 2015, 6, 1116-1127.	9.0	50
102	A Transient Stiffness Measure for Islanding Detection of Multi-DG Systems. IEEE Transactions on Power Delivery, 2015, 30, 986-995.	4.3	18
103	Development of Dynamic Estimators for Islanding Detection of Inverter-Based DG. IEEE Transactions on Power Delivery, 2015, 30, 428-436.	4.3	22
104	Optimal Coordination of Directional Overcurrent Relays Using a New Time-Current-Voltage Characteristic. IEEE Transactions on Power Delivery, 2015, 30, 537-544.	4.3	178
105	Optimal Protection Coordination for Meshed Distribution Systems With DG Using Dual Setting Directional Over-Current Relays. IEEE Transactions on Smart Grid, 2015, 6, 115-123.	9.0	212
106	Protection coordination of directional overcurrent relays considering fault current direction. , 2014, , .		8
107	Optimal allocation of HTS-FCL for power system security and stability enhancement. , 2014, , .		2
108	A three-phase fault currents calculation method used for protection coordination analysis. , 2014, , .		7

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109	Planning Active Distribution Networks Considering Multi-DG Configurations. IEEE Transactions on Power Systems, 2014, 29, 785-793.	6.5	138
110	A Differential Sequence Component Protection Scheme for Microgrids With Inverter-Based Distributed Generators. IEEE Transactions on Smart Grid, 2014, 5, 29-37.	9.0	199
111	Planning active distribution networks considering multi-DG configurations. , 2014, , .		2
112	Enhancement of islanded droop-controlled microgrid performance via power filter design. , 2014, , .		8
113	Demand Response Mismatch (DRM): Concept, Impact Analysis, and Solution. IEEE Transactions on Smart Grid, 2014, 5, 1734-1743.	9.0	26
114	NLP-KAOS for Systems Goal Elicitation: Smart Metering System Case Study. IEEE Transactions on Software Engineering, 2014, 40, 941-956.	5.6	32
115	Determining Optimal Location and Size of Distributed Generation Resources Considering Harmonic and Protection Coordination Limits. IEEE Transactions on Power Systems, 2013, 28, 1245-1254.	6.5	196
116	Optimal Protection Coordination for Microgrids With Grid-Connected and Islanded Capability. IEEE Transactions on Industrial Electronics, 2013, 60, 1668-1677.	7.9	345
117	Optimal Dispatching of Distributed Generators and Storage Systems for MV Islanded Microgrids. IEEE Transactions on Power Delivery, 2012, 27, 1243-1251.	4.3	200
118	A Bayesian Passive Islanding Detection Method for Inverter-Based Distributed Generation Using ESPRIT. IEEE Transactions on Power Delivery, 2011, 26, 2687-2696.	4.3	107
119	Three-dimensional Non-detection Zone for Assessing Anti-islanding Detection Schemes. Electric Power Components and Systems, 2010, 38, 621-636.	1.8	8