

Karen L Butler-Purry

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/878385/publications.pdf>

Version: 2024-02-01

87
papers

2,278
citations

304743

22
h-index

345221

36
g-index

88
all docs

88
docs citations

88
times ranked

2153
citing authors

#	ARTICLE	IF	CITATIONS
1	Sequential Service Restoration for Unbalanced Distribution Systems and Microgrids. IEEE Transactions on Power Systems, 2018, 33, 1507-1520.	6.5	227
2	Multi-Time Step Service Restoration for Advanced Distribution Systems and Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 6793-6805.	9.0	168
3	Towards a Framework for Cyber Attack Impact Analysis of the Electric Smart Grid. , 2010, , .		124
4	A Framework for Modeling Cyber-Physical Switching Attacks in Smart Grid. IEEE Transactions on Emerging Topics in Computing, 2013, 1, 273-285.	4.6	100
5	A Coordinated Multi-Switch Attack for Cascading Failures in Smart Grid. IEEE Transactions on Smart Grid, 2014, 5, 1183-1195.	9.0	94
6	Self-Healing Reconfiguration for Restoration of Naval Shipboard Power Systems. IEEE Transactions on Power Systems, 2004, 19, 754-762.	6.5	84
7	Characterization of transients in transformers using discrete wavelet transforms. IEEE Transactions on Power Systems, 2003, 18, 648-656.	6.5	79
8	Potential Power Quality Benefits of Electric Vehicles. IEEE Transactions on Sustainable Energy, 2013, PP, 1-8.	8.8	71
9	A Flocking-Based Paradigm for Hierarchical Cyber-Physical Smart Grid Modeling and Control. IEEE Transactions on Smart Grid, 2014, 5, 2687-2700.	9.0	71
10	Dynamic Model Predictive-Based Energy Management of DG Integrated Distribution Systems. IEEE Transactions on Power Delivery, 2013, 28, 2217-2227.	4.3	64
11	A Multi-Agent System Framework for Real-Time Electric Load Management in MVAC All-Electric Ship Power Systems. IEEE Transactions on Power Systems, 2015, 30, 1327-1336.	6.5	62
12	Implementing attacks for modbus/TCP protocol in a real-time cyber physical system test bed. , 2015, , .		61
13	Multi-Agent System-Based Real-Time Load Management for All-Electric Ship Power Systems in DC Zone Level. IEEE Transactions on Power Systems, 2012, 27, 1719-1728.	6.5	57
14	Dynamic Reactive Power Control of Islanded Microgrids. IEEE Transactions on Power Systems, 2013, 28, 3649-3657.	6.5	54
15	Impact of cyber attacks on transient stability of smart grids with voltage support devices. , 2013, , .		54
16	Implementing a real-time cyber-physical system test bed in RTDS and OPNET. , 2014, , .		53
17	Optimal control of distributed energy resources using model predictive control. , 2012, , .		39
18	Reactive Power Coordination of Shipboard Power Systems in Presence of Pulsed Loads. IEEE Transactions on Power Systems, 2013, 28, 3675-3682.	6.5	39

#	ARTICLE	IF	CITATIONS
19	An Integrated Security-Constrained Model-Based Dynamic Power Management Approach for Isolated Microgrids in All-Electric Ships. IEEE Transactions on Power Systems, 2015, 30, 2934-2945.	6.5	38
20	Overcurrent Protection for the IEEE 34-Node Radial Test Feeder. IEEE Transactions on Power Delivery, 2012, 27, 459-468.	4.3	36
21	Detecting Incipient Faults via Numerical Modeling and Statistical Change Detection. IEEE Transactions on Power Delivery, 2010, 25, 1275-1283.	4.3	33
22	Switched system models for coordinated cyber-physical attack construction and simulation. , 2011, , .		33
23	Induction Motor Starting in Islanded Microgrids. IEEE Transactions on Smart Grid, 2013, 4, 1323-1331.	9.0	31
24	A Novel Bio-Inspired Technique for Rapid Real-Time Generator Coherency Identification. IEEE Transactions on Smart Grid, 2015, 6, 178-188.	9.0	31
25	Dynamic Modeling of Sequential Service Restoration in Islanded Single Master Microgrids. IEEE Transactions on Power Systems, 2020, 35, 202-214.	6.5	31
26	A Novel Condition Assessment System for Underground Distribution Applications. IEEE Transactions on Power Systems, 2009, 24, 1115-1125.	6.5	30
27	An approach to mitigate the impact of distributed generation on the Overcurrent Protection scheme for radial feeders. , 2009, , .		27
28	Electrical behavior of contaminated distribution insulators exposed to natural wetting. IEEE Transactions on Power Delivery, 2003, 18, 551-558.	4.3	25
29	Security and Reliability Perspectives in Cyber-Physical Smart Grids. , 2018, , .		25
30	Real-time electric load management for DC zonal all-electric ship power systems. Electric Power Systems Research, 2018, 154, 503-514.	3.6	24
31	Multi-time Scale Coordination of Distributed Energy Resources in Isolated Power Systems. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	22
32	Distance protection zone 3 misoperation during system wide cascading events: The problem and a survey of solutions. Electric Power Systems Research, 2018, 154, 151-159.	3.6	22
33	Impact analysis of transient stability due to cyber attack on FACTS devices. , 2013, , .		18
34	Innovative Professional Development and Community Building Activity Program Improves STEM URM Graduate Student Experiences. International Journal of STEM Education, 2019, 6, .	5.0	18
35	Modeling of synchronous machines with damper windings for condition monitoring. , 2009, , .		17
36	A class of cyber-physical switching attacks for power system disruption. , 2011, , .		17

#	ARTICLE	IF	CITATIONS
37	Probability-based predictive self-healing reconfiguration for shipboard power systems. IET Generation, Transmission and Distribution, 2007, 1, 405.	2.5	15
38	Coordinated variable structure switching attack in the presence of model error and state estimation. , 2012, , .		15
39	Practical limitations of sliding-mode switching attacks on smart grid systems. , 2014, , .		15
40	Dynamic load management for NG IPS ships. , 2010, , .		14
41	A flocking-based dynamical systems paradigm for smart power system analysis. , 2012, , .		14
42	A smart grid vulnerability analysis framework for coordinated variable structure switching attacks. , 2012, , .		14
43	Network delay caused by cyber attacks on SVC and its impact on transient stability of smart grids. , 2014, , .		13
44	Linear power flow formulations and optimal operation of three-phase autonomous droop-controlled Microgrids. Electric Power Systems Research, 2021, 196, 107231.	3.6	13
45	Investigation of broadband over power line channel capacity of shipboard power system cables for ship communication networks. , 2009, , .		12
46	Characterization of underground cable incipient behavior using time-frequency multi-resolution analysis and artificial neural networks. , 2008, , .		11
47	Teaching Digital Circuit Design With a 3-D Video Game: The Impact of Using In-Game Tools on Studentsâ€™ Performance. IEEE Transactions on Education, 2021, 64, 24-31.	2.4	10
48	Multi-agent system-based real-time load management for NG IPS ships in high/medium voltage level. , 2011, , .		9
49	Transforming doctoral education: preparing multidimensional and adaptive scholars. Studies in Graduate and Postdoctoral Education, 2019, 11, 17-34.	1.5	9
50	Black Start Restoration of Islanded Droop-Controlled Microgrids. Energies, 2020, 13, 5996.	3.1	9
51	Security Constrained Power Management System for the NG IPS ships. , 2010, , .		8
52	Probing the telltale physics: Towards a cyber-physical protocol to mitigate information corruption in smart grid systems. , 2012, , .		8
53	Zonal overcurrent protection for smart radial distribution systems with distributed generation. , 2013, , .		8
54	Investigation of voltage stability in unbalanced distribution systems with DG using three-phase current injection based CPF. , 2014, , .		8

#	ARTICLE	IF	CITATIONS
55	Analysis of various partitioning strategies for multi-agent system-based real-time load management for NG IPs ships. , 2011, , .		7
56	Using smart meter data to improve the performance of overcurrent protective devices in distribution systems with DG. , 2012, , .		6
57	Sequential service restoration in distribution systems and microgrids integrating frequency response and varying switching interval. , 2018, , .		6
58	Real-Time Simulation using PC-based Kernels. , 2006, , .		5
59	Genetic algorithm based damage control for shipboard power systems. , 2009, , .		5
60	Overcurrent protection issues for radial distribution systems with distributed generators. , 2009, , .		5
61	Performance evaluation of flocking-based distributed cyber-physical control for Smart Grid. , 2014, , .		5
62	Test Bed for Studying Real-Time Simulation and Control for Shipboard Power Systems. , 2007, , .		4
63	A novel analytical method for prediction of the broken bar fault signature amplitude in induction machine cage rotor and synchronous machine damper winding. , 2011, , .		4
64	Implementation of wide area control in a real-time cyber-physical power system test bed. , 2017, , .		4
65	Minority Student Preparation for STEM PhD Study: Impact of NSF Bridge to the Doctorate Programming. International Journal of Technology in Education and Science, 2020, 4, 168-187.	1.0	4
66	Diakoptics in Shipboard Power System Simulation. , 2006, , .		3
67	Temporal Analysis of Power System Measurements for Condition Assessment Purposes. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	3
68	A PC-based test bed for NG IPS for ships in PSCAD™. , 2011, , .		3
69	Assessing the dynamic secure region for an all-electric ship model. , 2012, , .		3
70	Investigation of voltage stability in three-phase unbalanced distribution systems with DG using modal analysis technique. , 2014, , .		3
71	Performance of flocking-based control schemes in smart grid applications. , 2014, , .		3
72	Foreword for the Special Section on Power and Energy Education. IEEE Transactions on Power Systems, 2014, 29, 1871-1873.	6.5	3

#	ARTICLE	IF	CITATIONS
73	Modeling Single-Phase PQ Inverter for Unbalanced Power Dispatch in Islanded Microgrid. , 2019, , .		3
74	Geographical Information Systems for Automation of Shipboard Power Systems. Naval Engineers Journal, 2006, 118, 63-75.	0.1	2
75	Transient operational constraints in power system optimization problems. , 2012, , .		2
76	Secure transmission line distance protection during wide area cascading events using artificial intelligence. Electric Power Systems Research, 2019, 175, 105914.	3.6	2
77	Investigation of Approaches for Incorporating Smart Meter Data in Load and PV Models in Medium Voltage Power System Studies. , 2019, , .		2
78	Real-time wide area power control studies using PXI and RTDS. , 2012, , .		1
79	Progressive switching attacks for instigating cascading failures in smart grid. , 2013, , .		1
80	A novel deterministic and probabilistic dynamic security assessment approach for isolated microgrids. , 2017, , .		1
81	Active and Reactive Power Sharing in Inverter Based Droop-Controlled Microgrids. , 2019, , .		1
82	Improving Learning of Digital Systems Concepts Using a Video Game. , 0, , .		1
83	An Examination of the Paths of Successful Diverse STEM Faculty: Insight for Programming. Frontiers in Education, 2022, 7, .	2.1	1
84	Investigation of reactive power limit induced voltage collapse. , 2014, , .		0
85	Investigations of Voltage/Reactive Power Sensitivity for Voltage Control and Voltage Stability in Unbalanced Distribution Systems. , 2018, , .		0
86	Dynamic Simulation of Distribution Systems and Microgrids for Reconfiguration Studies using PSCAD/EMTDC. , 2019, , .		0
87	The Enrichment Experiences in Engineering (E3). , 0, , .		0