Kevin P Schneider

List of Publications by Year
in descending order

84 papers	4,155 citations	236925 25 h-index	189892 50 g-index
89 all docs	89 docs citations	89 times ranked	2945 citing authors

#	Article	IF	Citations
1	Microgrid Stability Definitions, Analysis, and Examples. IEEE Transactions on Power Systems, 2020, 35, 13-29.	6.5	422
2	Analytic Considerations and Design Basis for the IEEE Distribution Test Feeders. IEEE Transactions on Power Systems, 2018, 33, 3181-3188.	6.5	371
3	Microgrids for Service Restoration to Critical Load in a Resilient Distribution System. IEEE Transactions on Smart Grid, 2018, 9, 426-437.	9.0	319
4	Distribution System Restoration With Microgrids Using Spanning Tree Search. IEEE Transactions on Power Systems, 2014, 29, 3021-3029.	6.5	298
5	Coordinating Multiple Sources for Service Restoration to Enhance Resilience of Distribution Systems. IEEE Transactions on Smart Grid, 2019, 10, 5781-5793.	9.0	157
6	Placement of Remote-Controlled Switches to Enhance Distribution System Restoration Capability. IEEE Transactions on Power Systems, 2016, 31, 1139-1150.	6.5	146
7	A Comparative Study of Two Widely Used Grid-Forming Droop Controls on Microgrid Small-Signal Stability. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 963-975.	5.4	139
8	Controlled Partitioning of a Power Network Considering Real and Reactive Power Balance. IEEE Transactions on Smart Grid, 2010, 1, 261-269.	9.0	123
9	Analysis of Residential Demand Response and double-auction markets. , 2011, , .		116
10	Bi-Level Volt-VAR Optimization to Coordinate Smart Inverters With Voltage Control Devices. IEEE Transactions on Power Systems, 2019, 34, 1801-1813.	6.5	112
11	Modeling of Grid-Forming and Grid-Following Inverters for Dynamic Simulation of Large-Scale Distribution Systems. IEEE Transactions on Power Delivery, 2021, 36, 2035-2045.	4.3	109
12	Multi-State Load Models for Distribution System Analysis. IEEE Transactions on Power Systems, 2011, 26, 2425-2433.	6.5	92
13	A Power Hardware-in-the-Loop Platform With Remote Distribution Circuit Cosimulation. IEEE Transactions on Industrial Electronics, 2015, 62, 2236-2245.	7.9	91
14	DGs for Service Restoration to Critical Loads in a Secondary Network. IEEE Transactions on Smart Grid, 2019, 10, 435-447.	9.0	90
15	Evaluating the Feasibility to Use Microgrids as a Resiliency Resource. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	77
16	A Two-Layer Distributed Cooperative Control Method for Islanded Networked Microgrid Systems. IEEE Transactions on Smart Grid, 2020, 11, 942-957.	9.0	71
17	A Taxonomy of North American radial distribution feeders. , 2009, , .		61
18	Evaluating the Magnitude and Duration of Cold Load Pick-up on Residential Distribution Feeders<?Pub _newline ?>Using Multi-State Load Models. IEEE Transactions on Power Systems, 2016, 31, 3765-3774.	6.5	60

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19	Enabling Resiliency Operations Across Multiple Microgrids With Grid Friendly Appliance Controllers. IEEE Transactions on Smart Grid, 2018, 9, 4755-4764.	9.0	59
20	A Novel Visualization Technique for Electric Power Grid Analytics. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 410-423.	4.4	57
21	Improving Primary Frequency Response to Support Networked Microgrid Operations. IEEE Transactions on Power Systems, 2019, 34, 659-667.	6.5	53
22	A Distributed Power System Control Architecture for Improved Distribution System Resiliency. IEEE Access, 2019, 7, 9957-9970.	4.2	52
23	Vulnerability assessment for cascading failures in electric power systems. , 2009, , .		51
24	Assessment of Interactions Between Power and Telecommunications Infrastructures. IEEE Transactions on Power Systems, 2006, 21, 1123-1130.	6.5	50
25	Effects of distributed energy resources on conservation voltage reduction (CVR). , 2011, , .		46
26	Distribution power flow for smart grid technologies. , 2009, , .		45
27	Three-Phase Unbalanced Transient Dynamics and Powerflow for Modeling Distribution Systems With Synchronous Machines. IEEE Transactions on Power Systems, 2016, 31, 105-115.	6.5	44
28	Leveraging Standards to Create an Open Platform for the Development of Advanced Distribution Applications. IEEE Access, 2018, 6, 37361-37370.	4.2	36
29	Modeling Load Dynamics to Support Resiliency-Based Operations in Low-Inertia Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 2726-2737.	9.0	32
30	Detailed end use load modeling for distribution system analysis. , 2010, , .		31
31	Toward a resilient distribution system. , 2015, , .		31
32	Simulation of Inrush Dynamics for Unbalanced Distribution Systems Using Dynamic-Phasor Models. IEEE Transactions on Power Systems, 2017, 32, 633-642.	6.5	28
33	Evaluating conservation voltage reduction: An application of GridLAB-D: An open source software package. , 2011, , .		27
34	A Method for Evaluating Volt-VAR Optimization Field Demonstrations. IEEE Transactions on Smart Grid, 2014, 5, 1696-1703.	9.0	24
35	Advanced FLISR With Intentional Islanding Operations in an ADMS Environment Using GridAPPS-D. IEEE Access, 2020, 8, 113766-113778.	4.2	24
36	Analysis of distribution level residential demand response. , 2011, , .		23

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37	Volt-VAR optimization on American Electric Power feeders in Northeast Columbus. , 2012, , .		22
38	IEEE 342-node low voltage networked test system. , 2014, , .		22
39	Distributed Small-Signal Stability Conditions for Inverter-Based Unbalanced Microgrids. IEEE Transactions on Power Systems, 2020, 35, 3981-3990.	6.5	22
40	A Generalized Framework for Service Restoration in a Resilient Power Distribution System. IEEE Systems Journal, 2022, 16, 252-263.	4.6	22
41	Resilience-Motivated Distribution System Restoration Considering Electricity-Water-Gas Interdependency. IEEE Transactions on Smart Grid, 2021, 12, 4799-4812.	9.0	22
42	Microgrid Controller Design, Implementation, and Deployment: A Journey from Conception to Implementation at the Philadelphia Navy Yard. IEEE Power and Energy Magazine, 2017, 15, 50-62.	1.6	18
43	Evaluating the feasibility to use microgrids as a resiliency resource. , 2016, , .		14
44	Topology Error Identification for the NEPTUNE Power System. IEEE Transactions on Power Systems, 2005, 20, 1224-1232.	6.5	13
45	Enhancing Distribution System Resiliency through a Novel Transactive Energy Systems Framework. , 2019, , .		11
46	Study of Microgrid Resilience Through Co-Simulation of Power System Dynamics and Communication Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 1905-1915.	11.3	11
47	Studying impacts of communication system performance on dynamic stability of networked microgrid. IET Smart Grid, 2020, 3, 667-676.	2.2	11
48	A Framework for Coordinated Self-Assembly of Networked Microgrids Using Consensus Algorithms. IEEE Access, 2022, 10, 3864-3878.	4.2	11
49	Estimating power system dynamic states using extended Kalman Filter. , 2014, , .		10
50	Adaptive Dynamic Simulations for Distribution Systems Using Multistate Load Models. IEEE Transactions on Smart Grid, 2019, 10, 2257-2266.	9.0	10
51	Networked Microgrid Operations: Supporting a Resilient Electric Power Infrastructure. IEEE Electrification Magazine, 2020, 8, 70-79.	1.8	10
52	Dynamics and control of microgrids as a resiliency source. International Transactions on Electrical Energy Systems, 2020, 30, e12610.	1.9	9
53	Comparison of Electromagnetic Transient and Phasor-based Simulation for the Stability of Grid-Forming-Inverter-based Microgrids. , 2021, , .		9
54	Voltage control devices on the IEEE 8500 node test feeder. , 2010, , .		8

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55	Calibrating synchronous-generator-interfaced DG models in microgrids using multiple event data. International Journal of Electrical Power and Energy Systems, 2020, 120, 105989.	5.5	8
56	A Data-Driven Algorithm for Enabling Delay Tolerance in Resilient Microgrid Controls Using Dynamic Mode Decomposition. IEEE Transactions on Smart Grid, 2022, 13, 2500-2510.	9.0	7
57	Microgrids as a resiliency resource. , 2014, , .		6
58	Modeling of Grid-Forming Inverters for Transient Stability Simulations of an all Inverter-based Distribution System. , 2019, , .		6
59	Enhancing Responsiveness and Resilience with Distributed Applications in the Grid. , 2021, , .		6
60	Reliability assessment of distribution systems incorporating feeder restoration actions. , 2016, , .		5
61	Identifying Parameter Space for Robust Stability in Nonlinear Networks: A Microgrid Application. , 2019, , .		5
62	Improving primary frequency response in networked microgrid operations using multilayer perceptronâ€driven reinforcement learning. IET Smart Grid, 2020, 3, 500-507.	2.2	5
63	A Multi-Site Networked Hardware-in-the-Loop Platform for Evaluation of Interoperability and Distributed Intelligence at Grid-Edge. IEEE Open Access Journal of Power and Energy, 2021, 8, 460-471.	3.4	5
64	Critical values of cyber parameters in a dynamic microgrid system. IET Generation, Transmission and Distribution, 2022, 16, 99-109.	2.5	5
65	Off-line tracking of series parameters in distribution systems using AMI data. Electric Power Systems Research, 2016, 134, 205-212.	3.6	4
66	Grid Friendly Appliance Controllers to Increase the Dynamic Stability of Networked Resiliency-based Microgrids. , 2018, , .		4
67	Coordinated Power and Energy Management Using Cluster of Microgrids to Improve Grid Availability and Resiliency. , 2019, , .		4
68	Rapid Evaluation and Response to Impacts on Critical End-Use Loads Following Natural Hazard-Driven Power Outages: A Modular and Responsive Geospatial Technology. International Journal of Disaster Risk Science, 2022, 13, 415-434.	2.9	4
69	Aging Effect Analysis of PV Inverter Semiconductors for Ancillary Services Support. IEEE Open Journal of Industry Applications, 2020, 1, 157-170.	6.5	3
70	Sliderâ€based multiâ€objective control for resilient microgrids. IET Generation, Transmission and Distribution, 2020, 14, 2528-2534.	2.5	3
71	Quantitative Evaluation of Reliability Improvement: Case Study on a Self-healing Distribution System. , 2020, , .		3
72	Conservation voltage reduction (CVR) via twoâ€timescale control in unbalanced power distribution systems. IET Smart Grid, 2020, 3, 801-813.	2.2	3

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73	Optimized Dispatch of Distributed Energy Resources for Resiliency and Power Quality Improvements at the Grid-Edge. , 2021, , .		2
74	Resilience Evaluation of Advanced Distribution Grids with Self-healing Control, Microgrid and Transactable Reactive Power. , 2021, , .		2
75	Load Modeling with Smart Meter Data for Advanced Volt-VAR Optimization Applications. , 2019, , .		1
76	Modeling and Simulation of Inrush Currents in Harmonic Domain. , 2021, , .		1
77	Learning‐based load control to support resilient networked microgrid operations. IET Smart Grid, 2020, 3, 697-704.	2.2	1
78	Dynamic-Phasor Model of Transformer Inrush Simulation for Unbalanced Distribution System. , 2020, , .		1
79	Quasi-Static Time Series Fatigue Simulation for PV Inverter Semiconductors with Long-Term Solar Profile. , 2021, , .		1
80	Prototypical communication systems for electrical distribution system analysis: Design basis and exemplification through co‐simulation. IET Smart Grid, 2022, 5, 363-379.	2.2	1
81	Estimating System-Wide Impacts of Smart Grid Demonstrations. IEEE Transactions on Power Systems, 2015, 30, 980-988.	6.5	0
82	Using Distributed Dynamic Voltage Restorers to Improve the Frequency Stability of Low-Inertia Networked Microgrids. , 2021, , .		0
83	Impact of Self-healing Control on Reliability Evaluation in Distribution System with Microgrid. , 2021, , .		0
84	Erratum to â€œResilience-Motivated Distribution System Restoration Considering Electricity-Water-Gas Interdependencyâ€•[Nov 21 4799-4812]. IEEE Transactions on Smart Grid, 2022, 13, 2495-2495.	9.0	0