Andrew Keane

List of Publications by Year
in descending order

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128	4,205	212478	145109
papers	citations	28 h-index	60 g-index

129	129	129	3974
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Real-Time Estimation of Support Provision Capability for Poor-Observable Distribution Networks. IEEE Transactions on Power Systems, 2023, 38, 1806-1819.	4.6	1
2	Mitigating Extreme Over-Frequency Events Using Dynamic Response From Wind Farms. IEEE Transactions on Power Systems, 2022, 37, 3199-3208.	4.6	7
3	Reconciliation of Measured and Forecast Data for Topology Identification in Distribution Systems. IEEE Transactions on Power Delivery, 2022, 37, 176-186.	2.9	12
4	Enhanced Transmission and Distribution Network Coordination to Host More Electric Vehicles and PV. IEEE Systems Journal, 2022, 16, 2705-2716.	2.9	12
5	Voltage Restoration After Unforeseen Disturbances in Weakly Observable Distribution Systems. IEEE Transactions on Power Systems, 2022, 37, 3063-3076.	4.6	5
6	Three-Switch Common Ground Step-Down and Step-Up Single-Stage Grid-Connected PV Inverter. IEEE Transactions on Power Electronics, 2022, 37, 7577-7589.	5.4	13
7	Identification of Gaps and Barriers in Regulations, Standards, and Network Codes to Energy Citizen Participation in the Energy Transition. Energies, 2022, 15, 856.	1.6	18
8	An open-source optimization toolkit for the smart scheduling of DERs in distribution grids. , 2022, , .		1
9	Resilient Identification of Distribution Network Topology. IEEE Transactions on Power Delivery, 2021, 36, 2332-2342.	2.9	12
10	Technical barriers for harnessing the green hydrogen: A power system perspective. Renewable Energy, 2021, 163, 1580-1587.	4.3	44
11	Coordinating Demand Response Aggregation With LV Network Operational Constraints. IEEE Transactions on Power Systems, 2021, 36, 979-990.	4.6	28
12	Gas Network's Impact on Power System Voltage Security. IEEE Transactions on Power Systems, 2021, 36, 5428-5440.	4.6	5
13	A dataâ€driven measurement placement to evaluate the wellâ€being of distribution systems operation. IET Generation, Transmission and Distribution, 2021, 15, 1463-1473.	1.4	3
14	Green hydrogen: A new flexibility source for security constrained scheduling of power systems with renewable energies. International Journal of Hydrogen Energy, 2021, 46, 19270-19284.	3.8	52
15	Hybrid Power Electronic Transformer Model for System-Level Benefits Quantification in Energy Distribution Systems. Frontiers in Electronics, 2021, 2, .	2.0	2
16	NETWORK LIMITS ON RESIDENTIAL HEAT PUMP CAPACITY AS AN ENABLING TECHNOLOGY TOWARDS RENEWABLES INTEGRATION. , 2021, , .		3
17	Network-Constrained Decentralised Bidding Strategy of DR Aggregators Considering Customer Behaviour. , 2021, , .		3
18	Grid Impedance Characterization To Provide a Robust Phase-Locked Loop Design for PV Systems. , 2021, , .		0

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19	Novel Branch Centrality Measures for Electrical Power Systems Considering Both Load-serving and Circulating Currents. , 2020, , .		2
20	Resilient decentralised control of inverterâ€interfaced distributed energy sources in lowâ€voltage distribution grids. IET Smart Grid, 2020, 3, 153-161.	1.5	2
21	Fast Resource Scheduling for Distribution Systems Enabled With Discrete Control Devices. IEEE Systems Journal, 2020, 14, 3767-3778.	2.9	5
22	Strategic Scheduling of Discrete Control Devices in Active Distribution Systems. IEEE Transactions on Power Delivery, 2020, 35, 2285-2299.	2.9	11
23	Open-DSOPF: an open-source optimal power flow formulation integrated with OpenDSS. , 2020, , .		15
24	Distribution System Topology Identification for DER Management Systems Using Deep Neural Networks. , 2020, , .		14
25	Use of fitted polynomials for the decentralised estimation of network variables in unbalanced radial LV feeders. IET Generation, Transmission and Distribution, 2020, 14, 2368-2377.	1.4	2
26	optimising Load Flexibility for the Day Ahead in Distribution Networks with Photovoltaics. , 2019, , .		1
27	Decentralised flexibility management for EVs. IET Renewable Power Generation, 2019, 13, 952-960.	1.7	29
28	An Analysis on PV Forecast Allocation for Distribution System Planning. , 2019, , .		0
29	Methodology for Assessment of the Impact of Smart Transformers on Power System Reliability. , 2019, , .		0
30	Smart transformer Modelling in Optimal Power Flow Analysis. , 2019, , .		3
31	Calculating Nodal Voltages Using the Admittance Matrix Spectrum of an Electrical Network. Mathematics, 2019, 7, 106.	1.1	8
32	Planning of OLTC Transformers in LV Systems under Conservation Voltage Reduction Strategy. , 2019, , .		1
33	Stochastic network constrained payment minimisation in electricity markets. IET Generation, Transmission and Distribution, 2019, 13, 2268-2279.	1.4	6
34	Probabilistic Under Frequency Load Shedding Considering RoCoF Relays of Distributed Generators. IEEE Transactions on Power Systems, 2018, 33, 3587-3598.	4.6	72
35	A deterministic approach to locating series flow-controllers within transmission systems to alleviate congestion. Electric Power Systems Research, 2018, 163, 686-695.	2.1	4
36	Estimation of voltage sensitivities in low voltage feeders with photovoltaics. , 2018, , .		6

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37	Strategic Scheduling in Smart Grids. , 2018, , .		2
38	Visualizing the Electrical Structure of Power Systems. IEEE Systems Journal, 2017, 11, 1810-1821.	2.9	90
39	Stochastic Real-Time Scheduling of Wind-Thermal Generation Units in an Electric Utility. IEEE Systems Journal, 2017, 11, 1622-1631.	2.9	31
40	Information gap decision theory approach to deal with wind power uncertainty in unit commitment. Electric Power Systems Research, 2017, 145, 137-148.	2.1	114
41	Autonomous plug and play electric vehicle charging scenarios including reactive power provision: a probabilistic load flow analysis. IET Generation, Transmission and Distribution, 2017, 11, 768-775.	1.4	15
42	DC constrained fuzzy power flow for transmission expansion planning studies. International Transactions on Electrical Energy Systems, 2017, 27, e2361.	1.2	2
43	Risk Averse Security Constrained Stochastic Congestion Management. Power Electronics and Power Systems, 2017, , 301-334.	0.6	1
44	For Power Systems, Geography Doesn't Matter, But Electrical Structure Does. IEEE Potentials, 2017, 36, 42-46.	0.2	3
45	Resiliency oriented integration of DSRs in transmission networks. IET Generation, Transmission and Distribution, 2017, 11, 2013-2022.	1.4	27
46	Distribution networks' energy losses versus hosting capacity of wind power in the presence of demand flexibility. Renewable Energy, 2017, 102, 316-325.	4.3	55
47	Open and Closed-Loop Residential Load Models for Assessment of Conservation Voltage Reduction. IEEE Transactions on Power Systems, 2017, 32, 2995-3005.	4.6	19
48	Voltâ€“var curves for photovoltaic inverters in distribution systems. IET Generation, Transmission and Distribution, 2017, 11, 730-739.	1.4	54
49	Local and Remote Estimations Using Fitted Polynomials in Distribution Systems. IEEE Transactions on Power Systems, 2017, 32, 3185-3194.	4.6	16
50	Synchronizing Torque Impacts on Rotor Speed in Power Systems. IEEE Transactions on Power Systems, 2017, 32, 1927-1935.	4.6	10
51	Remote voltage estimation in LV feeders with local monitoring at transformer level. , 2017, , .		2
52	A study of operation strategy of small scale heat storage devices in residential distribution feeders. , 2017, , .		5
53	Robust multiâ€objective PQ scheduling for electric vehicles in flexible unbalanced distribution grids. IET Generation, Transmission and Distribution, 2017, 11, 4031-4040.	1.4	27
54	Distribution feeder hosting capacity analysis. , 2017, , .		1

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55	Visualizing voltage relationships using the unity row summation and real valued properties of the F matrix. Electric Power Systems Research, 2016, 140, 611-618.	2.1	17
56	Novel quality metrics for power system diagrams. , 2016, , .		8
57	Information Gap Decision Theory based congestion and voltage management in the presence of uncertain wind power. , 2016, , .		1
58	Probabilistic load flow: A business park analysis, utilizing real world meter data. , 2016, , .		4
59	Distribution network voltage control for peak load alleviation. , 2016, , .		1
60	Robust computational framework for midâ€term technoâ€economical assessment of energy storage. IET Generation, Transmission and Distribution, 2016, 10, 822-831.	1.4	25
61	Restoration strategy in a self-healing distribution network with DG and flexible loads. , 2016, , .		8
62	Embracing an Adaptable, Flexible Posture: Ensuring That Future European Distribution Networks Are Ready for More Active Roles. IEEE Power and Energy Magazine, 2016, 14, 16-28.	1.6	35
63	Distribution Network Operation Under Uncertainty Using Information Gap Decision Theory. IEEE Transactions on Smart Grid, 2016, , 1-1.	6.2	16
64	Residential load modeling of price-based demand response for network impact studies. , 2016, , .		6
65	Allocation of wind capacity subject to long term voltage stability constraints. , 2016, , .		0
66	Autonomous Curtailment Control in Distributed Generation Planning. IEEE Transactions on Smart Grid, 2016, 7, 1337-1345.	6.2	26
67	Information Gap Decision Theory-Based Congestion and Voltage Management in the Presence of Uncertain Wind Power. IEEE Transactions on Sustainable Energy, 2016, 7, 841-849.	5.9	70
68	Optimal DR and ESS Scheduling for Distribution Losses Payments Minimization Under Electricity Price Uncertainty. IEEE Transactions on Smart Grid, 2016, 7, 261-272.	6.2	131
69	Analytic Loss Minimization: A Proof. IEEE Transactions on Power Systems, 2016, 31, 3322-3323.	4.6	9
70	Allocation of Wind Capacity Subject to Long Term Voltage Stability Constraints. IEEE Transactions on Power Systems, 2016, 31, 2404-2414.	4.6	17
71	Residential Load Modeling of Price-Based Demand Response for Network Impact Studies. IEEE Transactions on Smart Grid, 2016, 7, 2285-2294.	6.2	109
72	Offline tuning of dynamic settings considering an online central controller in a wind energy harvesting network. IET Renewable Power Generation, 2015, 9, 1000-1009.	1.7	1

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73	Voltage responsive distribution networks: Comparing autonomous and centralized solutions. , 2015, , .		1
74	Voltage Responsive Distribution Networks: Comparing Autonomous and Centralized Solutions. IEEE Transactions on Power Systems, 2015, 30, 2234-2242.	4.6	21
75	Risk-Averse Preventive Voltage Control of AC/DC Power Systems Including Wind Power Generation. IEEE Transactions on Sustainable Energy, 2015, 6, 1494-1505.	5.9	30
76	Optimised voltage control for distributed generation. , 2015, , .		7
77	Information gap decision theory based OPF with HVDC connected wind farms. , 2015, , .		8
78	Information Gap Decision Theory Based OPF With HVDC Connected Wind Farms. IEEE Transactions on Power Systems, 2015, 30, 3396-3406.	4.6	99
79	Risk Averse Energy Hub Management Considering Plug-in Electric Vehicles Using Information Gap Decision Theory. Power Systems, 2015, , 107-127.	0.3	29
80	Robust optimization based EV charging. , 2014, , .		6
81	Rolling multi-period optimization to control electric vehicle charging in distribution networks. , 2014, , .		3
82	Multi-period three-phase unbalanced optimal power flow. , 2014, , .		12
83	Discrete elastic residential load response under variable pricing schemes. , 2014, , .		14
84	Capability Chart for Distributed Reactive Power Resources. IEEE Transactions on Power Systems, 2014, 29, 15-22.	4.6	46
85	Rolling Multi-Period Optimization to Control Electric Vehicle Charging in Distribution Networks. IEEE Transactions on Power Systems, 2014, 29, 340-348.	4.6	102
86	Firm and Non-Firm Wind Generation Planning Considering Distribution Network Sterilization. IEEE Transactions on Smart Grid, 2013, 4, 2162-2173.	6.2	5
87	Impact of higher power PEV charge levels on three U.S. radial system and field trial findings on ESB's low voltage residential network. , 2013, , .		3
88	Optimal allocation of wind generation subject to voltage stability constraints. , 2013, , .		2
89	State-of-the-Art Techniques and Challenges Ahead for Distributed Generation Planning and Optimization. IEEE Transactions on Power Systems, 2013, 28, 1493-1502.	4.6	347
90	Comparison of wind turbine/generator configurations for future offshore wind farms. , 2013, , .		0

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91	Identification of Critical Wind Farm Locations for Improved Stability and System Planning. IEEE Transactions on Power Systems, 2013, 28, 2950-2958.	4.6	40
92	Smart and Just Grids for sub-Saharan Africa: Exploring options. Renewable and Sustainable Energy Reviews, 2013, 20, 336-352.	8.2	76
93	A Smart Integrated Network for an Offshore Island. Proceedings of the IEEE, 2013, 101, 942-955.	16.4	10
94	Operational security at high penetrations of stochastic, non-synchronous generation. , 2013, , .		3
95	Optimisation of wind farm reactive power for congestion management. , 2013, , .		4
96	Local versus centralized charging strategies for electric vehicles in low voltage distribution systems. , 2013, , .		2
97	Distribution system reactive power management under defined power transfer standards. , 2013, , .		3
98	Capability chart for distributed reactive power resources. , 2013, , .		2
99	Steps for a Complete Wind Integration Study. , 2013, , .		12
100	Requirements-driven distribution state estimation. , 2013, , .		2
101	Impact of electric vehicle charging on residential distribution networks: An Irish demonstration initiative. , 2013, , .		28
102	Capacity value of solar power. , 2012, , .		18
103	Reactive power support from distributed generation — Ireland's demonstration initiative. , 2012, , .		1
104	VSC-HVDC link to support voltage and frequency fluctuations for variable speed wind turbines for grid connection. , 2012, , .		7
105	Evaluation of Advanced Operation and Control of Distributed Wind Farms to Support Efficiency and Reliability. IEEE Transactions on Sustainable Energy, 2012, 3, 735-742.	5.9	19
106	Local Versus Centralized Charging Strategies for Electric Vehicles in Low Voltage Distribution Systems. IEEE Transactions on Smart Grid, 2012, 3, 1020-1028.	6.2	203
107	Transmission System Impact of Wind Energy Harvesting Networks. IEEE Transactions on Sustainable Energy, 2012, 3, 643-651.	5.9	26
108	Optimal Charging of Electric Vehicles in Low-Voltage Distribution Systems. IEEE Transactions on Power Systems, 2012, 27, 268-279.	4.6	441

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109	Transient stability impacts from distribution connected wind farms. , 2012, , .		3
110	Controlled charging of electric vehicles in residential distribution networks. , 2012, , .		8
111	Characterisation of the reactive power capability of diverse distributed generators: Toward an optimisation approach. , 2012, , .		7
112	Voltage security constrained reactive power optimization incorporating wind generation. , 2012, , .		10
113	Enhanced Utilization of Voltage Control Resources With Distributed Generation. IEEE Transactions on Power Systems, 2011, 26, 252-260.	4.6	168
114	Capacity Value of Wind Power. IEEE Transactions on Power Systems, 2011, 26, 564-572.	4.6	292
115	Minimizing the Reactive Support for Distributed Generation: Enhanced Passive Operation and Smart Distribution Networks. IEEE Transactions on Power Systems, 2011, 26, 2134-2142.	4.6	74
116	Capacity Value of Wind Power, Calculation, and Data Requirements: the Irish Power System Case. IEEE Transactions on Power Systems, 2011, 26, 420-430.	4.6	93
117	Effect of Short-Term Risk-Aversive Dispatch on a Complex System Model for Power Systems. IEEE Transactions on Power Systems, 2011, 26, 460-469.	4.6	6
118	Effect of Generator Flow Control Strategies on the Long Term Dynamics of a Model for Power Systems. , 2010, , .		1
119	Impact assessment of varying penetrations of electric vehicles on low voltage distribution systems. , 2010, , .		127
120	A Steady-State Voltage Stability Analysis of Power Systems With High Penetrations of Wind. IEEE Transactions on Power Systems, 2010, 25, 433-442.	4.6	212
121	New tool for integration of wind power forecasting into power system operation. , 2009, , .		10
122	Impact of wind turbine control strategies on voltage performance. , 2009, , .		9
123	Current methods to calculate capacity credit of wind power, IEA collaboration. , 2008, , .		52
124	Varying penetration ratios of wind turbine technologies for voltage and frequency stability. , 2008, , .		33
125	Quantifying the Impact of Connection Policy on Distributed Generation. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	0
126	Optimal Utilisation of Distribution Networks for Energy Harvesting. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	1

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127	Optimal Utilization of Distribution Networks for Energy Harvesting. IEEE Transactions on Power Systems, 2007, 22, 467-475.	4.6	86
128	Quantifying the Impact of Connection Policy on Distributed Generation. IEEE Transactions on Energy Conversion, 2007, 22, 189-196.	3.7	14