

Mark O'Malley

List of Publications by Year in descending order

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76
papers

5,275
citations

172457

29
h-index

214800

47
g-index

77
all docs

77
docs citations

77
times ranked

3701
citing authors

#	ARTICLE	IF	CITATIONS
1	System Impact Studies for Near 100% Renewable Energy Systems Dominated by Inverter Based Variable Generation. IEEE Transactions on Power Systems, 2022, 37, 3249-3258.	6.5	43
2	Editorial: Towards 100% Renewable Energy System. IEEE Transactions on Power Systems, 2022, 37, 3187-3189.	6.5	4
3	Strategic Participation of Residential Thermal Demand Response in Energy and Capacity Markets. IEEE Transactions on Smart Grid, 2021, 12, 3070-3085.	9.0	9
4	Potential of data centers for fast frequency response services in synchronously isolated power systems. Renewable and Sustainable Energy Reviews, 2021, 151, 111547.	16.4	16
5	Enabling Power System Transformation Globally: A System Operator Research Agenda for Bulk Power System Issues. IEEE Power and Energy Magazine, 2021, 19, 45-55.	1.6	11
6	Flexibility From Energy Systems Integration: Supporting Synergies Among Sectors. IEEE Power and Energy Magazine, 2019, 17, 67-78.	1.6	25
7	The drivers of power system emissions: an econometric analysis of load, wind and forecast errors. Energy Systems, 2018, 9, 853-872.	3.0	5
8	Assessment of the Wind Integration Potential of Residential Thermal Storage. , 2018, , .		1
9	Heat Electrification: The Latest Research in Europe. IEEE Power and Energy Magazine, 2018, 16, 69-78.	1.6	22
10	A 34-year simulation of wind generation potential for Ireland and the impact of large-scale atmospheric pressure patterns. Renewable Energy, 2017, 106, 165-176.	8.9	25
11	Spatial variability in winter NAO wind speed relationships in western Europe linked to concomitant states of the East Atlantic and Scandinavian patterns. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 552-562.	2.7	58
12	Electrification of residential space heating considering coincidental weather events and building thermal inertia: A system-wide planning analysis. Energy, 2017, 127, 136-154.	8.8	43
13	Evaluation of flexibility impacts of thermal electric storage using an integrated building-to-grid model. , 2017, , .		1
14	Electricity, gas, heat integration via residential hybrid heating technologies – An investment model assessment. Energy, 2016, 109, 906-919.	8.8	69
15	An integrated Building-to-Grid model for evaluation of energy arbitrage value of Thermal Storage. , 2016, , .		7
16	Assessing the system and investor value of utility-scale solar PV. Renewable and Sustainable Energy Reviews, 2016, 64, 506-517.	16.4	29
17	Identification and Correction of Outliers in Wind Farm Time Series Power Data. IEEE Transactions on Power Systems, 2016, 31, 4197-4205.	6.5	53
18	Reserves in Stochastic Unit Commitment: An Irish System Case Study. IEEE Transactions on Sustainable Energy, 2015, 6, 1029-1038.	8.8	20

#	ARTICLE	IF	CITATIONS
19	Foreword for the Special Section on Wind and Solar Energy: Uncovering and Accommodating Their Impacts on Electricity Markets. IEEE Transactions on Power Systems, 2015, 30, 1557-1559.	6.5	4
20	Alternatives No More: Wind and Solar Power Are Mainstays of a Clean, Reliable, Affordable Grid. IEEE Power and Energy Magazine, 2015, 13, 78-87.	1.6	50
21	Transmission, Variable Generation, and Power System Flexibility. IEEE Transactions on Power Systems, 2015, 30, 57-66.	6.5	146
22	A methodology for estimating the capacity value of demand response. , 2014, , .		13
23	Optimizing wind farm locations to reduce variability and increase generation. , 2014, , .		7
24	Studying the Maximum Instantaneous Non-Synchronous Generation in an Island System—Frequency Stability Challenges in Ireland. IEEE Transactions on Power Systems, 2014, 29, 2943-2951.	6.5	231
25	Market designs for the primary frequency response ancillary service. , 2014, , .		1
26	Data sensitivities for variable renewable energy curtailment estimation. , 2014, , .		2
27	Regulating power from supermarket refrigeration. , 2014, , .		10
28	Variable Generation, Reserves, Flexibility and Policy Interactions. , 2014, , .		8
29	Recommended Practices for wind integration studies. , 2014, , .		3
30	Modeling the Impact of a Wind Power Producer as a Price-Maker. IEEE Transactions on Power Systems, 2014, 29, 2723-2732.	6.5	51
31	Demand Response for Ancillary Services. IEEE Transactions on Smart Grid, 2013, 4, 1988-1995.	9.0	264
32	Accommodating Variability in Generation Planning. IEEE Transactions on Power Systems, 2013, 28, 158-169.	6.5	83
33	Capacity value of solar power. , 2012, , .		18
34	Quantifying the long-term power system benefits of electric vehicles. , 2012, , .		7
35	Requirements for Integration of Wind Generation. , 2012, , .		0
36	Unit Commitment With Dynamic Cycling Costs. IEEE Transactions on Power Systems, 2012, 27, 2196-2205.	6.5	56

#	ARTICLE	IF	CITATIONS
37	Studying the Variability and Uncertainty Impacts of Variable Generation at Multiple Timescales. IEEE Transactions on Power Systems, 2012, 27, 1324-1333.	6.5	198
38	Power system flexibility assessment — State of the art. , 2012, , .		19
39	Assessment of power system flexibility: A high-level approach. , 2012, , .		32
40	Short-Term Energy Balancing With Increasing Levels of Wind Energy. IEEE Transactions on Sustainable Energy, 2012, 3, 769-776.	8.8	55
41	Evaluation of Power System Flexibility. IEEE Transactions on Power Systems, 2012, 27, 922-931.	6.5	455
42	Impact of Wind Forecast Error Statistics Upon Unit Commitment. IEEE Transactions on Sustainable Energy, 2012, 3, 760-768.	8.8	98
43	The importance of sub-hourly modeling with a high penetration of wind generation. , 2012, , .		9
44	The role of power system flexibility in generation planning. , 2011, , .		73
45	A flexible power system operations simulation model for assessing wind integration. , 2011, , .		29
46	A Blast of Activity. IEEE Power and Energy Magazine, 2011, 9, 26-35.	1.6	5
47	Impact of wind power on the unit commitment, operating reserves, and market design. , 2011, , .		23
48	Capacity Value of Wind Power. IEEE Transactions on Power Systems, 2011, 26, 564-572.	6.5	292
49	Stochastic Optimization Model to Study the Operational Impacts of High Wind Penetrations in Ireland. IEEE Transactions on Power Systems, 2011, 26, 1367-1379.	6.5	280
50	Capacity Value of Wind Power, Calculation, and Data Requirements: the Irish Power System Case. IEEE Transactions on Power Systems, 2011, 26, 420-430.	6.5	93
51	Effect of Short-Term Risk-Aversive Dispatch on a Complex System Model for Power Systems. IEEE Transactions on Power Systems, 2011, 26, 460-469.	6.5	6
52	Integration of Renewable Energy into Present and Future Energy Systems. , 2011, , 609-706.		39
53	The efficiency of Ireland's Renewable Energy Feed-In Tariff (REFIT) for wind generation. Energy Policy, 2011, 39, 4911-4919.	8.8	25
54	Impacts of large amounts of wind power on design and operation of power systems, results of IEA collaboration. Wind Energy, 2011, 14, 179-192.	4.2	342

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55	Multi-mode operation of Combined Cycle Gas Turbines with increasing wind penetration. , 2010, , .		3
56	Impact of variable generation in generation resource planning models. , 2010, , .		8
57	A Steady-State Voltage Stability Analysis of Power Systems With High Penetrations of Wind. IEEE Transactions on Power Systems, 2010, 25, 433-442.	6.5	212
58	Base-Load Cycling on a System With Significant Wind Penetration. IEEE Transactions on Power Systems, 2010, 25, 1088-1097.	6.5	210
59	Improved system operations with high penetration of wind power: A dialog between academia and industry - Ireland. , 2010, , .		0
60	Integration of variable generation: Capacity value and evaluation of flexibility. , 2010, , .		29
61	New tool for integration of wind power forecasting into power system operation. , 2009, , .		10
62	Planning and operating non-firm distributed generation. IET Renewable Power Generation, 2009, 3, 455.	3.1	31
63	Unit Commitment for Systems With Significant Wind Penetration. IEEE Transactions on Power Systems, 2009, 24, 592-601.	6.5	587
64	Wind power myths debunked. IEEE Power and Energy Magazine, 2009, 7, 89-99.	1.6	87
65	Impact of pumped storage on power systems with increasing wind penetration. , 2009, , .		75
66	Managing wind uncertainty and variability in the Irish power system. , 2009, , .		3
67	Comment on "Air Emissions Due to Wind and Solar Power", Environmental Science & Technology, 2009, 43, 6106-6107.	10.0	12
68	Quantifying the Impact of Connection Policy on Distributed Generation. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	0
69	Wind Turbine Modelling for Power System Stability Analysis – A System Operator Perspective. IEEE Transactions on Power Systems, 2007, 22, 929-936.	6.5	72
70	Rolling Unit Commitment for Systems with Significant Installed Wind Capacity. , 2007, , .		50
71	Optimal Utilization of Distribution Networks for Energy Harvesting. IEEE Transactions on Power Systems, 2007, 22, 467-475.	6.5	86
72	Quantifying the Impact of Connection Policy on Distributed Generation. IEEE Transactions on Energy Conversion, 2007, 22, 189-196.	5.2	14

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73	Quantifying the Total Net Benefits of Grid Integrated Wind. IEEE Transactions on Power Systems, 2007, 22, 605-615.	6.5	98
74	Challenges of Increased Wind Energy Penetration in Ireland. Wind Engineering, 2004, 28, 43-55.	1.9	6
75	Wind Penetration Studies on the Island of Ireland. Wind Engineering, 2004, 28, 27-41.	1.9	10
76	Controllers of Ziegler-Nichols type for unstable process with time delay. International Journal of Control, 1989, 49, 1273-1284.	1.9	167