

Aoife M Foley

List of Publications by Year in descending order

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113
papers

6,776
citations

94433

37
h-index

64796

79
g-index

123
all docs

123
docs citations

123
times ranked

6424
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy systems. , 2023, , 413-425.		1
2	A Balancing Current Ratio Based State-of-Health Estimation Solution for Lithium-Ion Battery Pack. IEEE Transactions on Industrial Electronics, 2022, 69, 8055-8065.	7.9	28
3	A Dual Distributed Optimal Energy Management Method for Distribution Grids With Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13666-13677.	8.0	11
4	Decarbonizing the glass industry: A critical and systematic review of developments, sociotechnical systems and policy options. Renewable and Sustainable Energy Reviews, 2022, 155, 111885.	16.4	43
5	Renewable and sustainable energy challenges to face for the achievement of Sustainable Development Goals. Renewable and Sustainable Energy Reviews, 2022, 157, 112071.	16.4	64
6	A Market Assessment of Distributed Battery Energy Storage to Facilitate Higher Renewable Penetration in an Isolated Power System. IEEE Access, 2022, 10, 2382-2398.	4.2	7
7	Decarbonizing the ceramics industry: A systematic and critical review of policy options, developments and sociotechnical systems. Renewable and Sustainable Energy Reviews, 2022, 157, 112081.	16.4	37
8	Life cycle assessment of a short-rotation coppice willow riparian buffer strip for farm nutrient mitigation and renewable energy production. Renewable and Sustainable Energy Reviews, 2022, 158, 112154.	16.4	6
9	Effective identification of distributed energy resources using smart meter net demand data. IET Smart Grid, 2022, 5, 120-135.	2.2	10
10	Analysis of Fast Frequency Response Allocations in Power Systems With High System Non-Synchronous Penetrations. IEEE Transactions on Industry Applications, 2022, 58, 3087-3101.	4.9	12
11	Measuring the equity impacts of government subsidies for electric vehicles. Energy, 2022, 248, 123588.	8.8	31
12	Energy-related approach for reduction of CO2 emissions: A critical strategy on the port-to-ship pathway. Journal of Cleaner Production, 2022, 355, 131772.	9.3	109
13	Promote clean-energy transition in student education. Nature, 2022, 607, 32-32.	27.8	4
14	Developing future retail electricity markets with a customer-centric focus. Energy Policy, 2022, 168, 113147.	8.8	4
15	Sparse Heteroscedastic Multiple Spline Regression Models for Wind Turbine Power Curve Modeling. IEEE Transactions on Sustainable Energy, 2021, 12, 191-201.	8.8	28
16	Will climate mitigation ambitions lead to carbon neutrality? An analysis of the local-level plans of 327 cities in the EU. Renewable and Sustainable Energy Reviews, 2021, 135, 110253.	16.4	275
17	A Control-Oriented Electrothermal Model for Pouch-Type Electric Vehicle Batteries. IEEE Transactions on Power Electronics, 2021, 36, 5530-5544.	7.9	26
18	Exploring the synthetic potential of a marine transaminase including discrimination at a remote stereocentre. Organic and Biomolecular Chemistry, 2021, 19, 188-198.	2.8	0

#	ARTICLE	IF	CITATIONS
19	Transient Energy of an Individual Machine PART II: Potential Energy Surface. IEEE Access, 2021, 9, 60223-60243.	4.2	5
20	Willow coppice in intensive agricultural applications to reduce strain on the food-energy-water nexus. Biomass and Bioenergy, 2021, 144, 105903.	5.7	14
21	Frequency Regulation and Operating Reserve Techniques for Variable Speed Wind Turbines. , 2021, , .		4
22	Decarbonizing the food and beverages industry: A critical and systematic review of developments, sociotechnical systems and policy options. Renewable and Sustainable Energy Reviews, 2021, 143, 110856.	16.4	89
23	A state-of-the-art techno-economic review of distributed and embedded energy storage for energy systems. Energy, 2021, 229, 120461.	8.8	93
24	Enhancing reactant mass transfer inside fuel cells to improve dynamic performance via intelligent hydrogen pressure control. Energy, 2021, 230, 120620.	8.8	14
25	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
26	Energy, environmental, economic and social equity (4E) pressures of COVID-19 vaccination mismanagement: A global perspective. Energy, 2021, 235, 121315.	8.8	26
27	Load modelling and non-intrusive load monitoring to integrate distributed energy resources in low and medium voltage networks. Renewable Energy, 2021, 179, 445-466.	8.9	32
28	An alternative frequency-droop scheme for wind turbines that provide primary frequency regulation via rotor speed control. International Journal of Electrical Power and Energy Systems, 2021, 133, 107219.	5.5	28
29	Transient Energy of an Individual Machine PART I: Stability Characterization. IEEE Access, 2021, 9, 44797-44812.	4.2	6
30	Transient Energy of an Individual Machine PART III: Newtonian Energy Conversion. IEEE Access, 2021, 9, 110236-110254.	4.2	0
31	Photovoltaic Power Disaggregation using a Non-Intrusive Load Monitoring Regression Model. , 2021, , .		2
32	Identification of Distributed Energy Resources in Low Voltage Distribution Networks. , 2021, , .		6
33	A Dynamic Analysis of Energy Storage With Renewable and Diesel Generation Using Volterra Equations. IEEE Transactions on Industrial Informatics, 2020, 16, 3451-3459.	11.3	61
34	Integration of mitigation and adaptation in urban climate change action plans in Europe: A systematic assessment. Renewable and Sustainable Energy Reviews, 2020, 121, 109623.	16.4	108
35	An assessment of wind energy potential in the Beibu Gulf considering the energy demands of the Beibu Gulf Economic Rim. Renewable and Sustainable Energy Reviews, 2020, 119, 109605.	16.4	28
36	Battery warm-up methodologies at subzero temperatures for automotive applications: Recent advances and perspectives. Progress in Energy and Combustion Science, 2020, 77, 100806.	31.2	218

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37	A Comparative Assessment of Battery Energy Storage Locations in Power Systems with High Wind Power Penetrations. , 2020, , .		3
38	Manipulation of Static and Dynamic Data Center Power Responses to Support Grid Operations. IEEE Access, 2020, 8, 182078-182091.	4.2	9
39	Bilateral Gaussian Wake Model Formulation for Wind Farms: A Forecasting based approach. Renewable and Sustainable Energy Reviews, 2020, 127, 109873.	16.4	32
40	Renewables in the European power system and the impact on system rotational inertia. Energy, 2020, 203, 117776.	8.8	53
41	Battery energy storage system state-of-charge management to ensure availability of frequency regulating services from wind farms. Renewable Energy, 2020, 160, 1119-1135.	8.9	30
42	Levelised cost of energy, A challenge for offshore wind. Renewable Energy, 2020, 160, 876-885.	8.9	73
43	Lidar assisted wake redirection in wind farms: A data driven approach. Renewable Energy, 2020, 152, 484-493.	8.9	17
44	A critical evaluation of grid stability and codes, energy storage and smart loads in power systems with wind generation. Energy, 2020, 205, 117671.	8.8	57
45	Developing a Framework for a Retail Electricity Model Incorporating Energy Storage. , 2020, , .		0
46	Utilizing Data Centers for Inertia and Fast Frequency Response Services. , 2020, , .		0
47	Analytical Iterative Multistep Interval Forecasts of Wind Generation Based on TLGP. IEEE Transactions on Sustainable Energy, 2019, 10, 625-636.	8.8	15
48	Data-driven health estimation and lifetime prediction of lithium-ion batteries: A review. Renewable and Sustainable Energy Reviews, 2019, 113, 109254.	16.4	599
49	Approaches to wind power curve modeling: A review and discussion. Renewable and Sustainable Energy Reviews, 2019, 116, 109422.	16.4	146
50	Editorial: Highway design and maintenance, road safety and traffic management. Proceedings of the Institution of Civil Engineers: Transport, 2019, 172, 247-248.	0.6	0
51	Dedicated versus mainstreaming approaches in local climate plans in Europe. Renewable and Sustainable Energy Reviews, 2019, 112, 948-959.	16.4	73
52	The Impact of Recent Developments in Technologies which Enable the Increased Use of Biocatalysts. European Journal of Organic Chemistry, 2019, 2019, 3713-3734.	2.4	25
53	Life cycle to Pinch Analysis and 100% renewable energy systems in a circular economy at sustainable development of energy, Water and Environment Systems 2017. Renewable and Sustainable Energy Reviews, 2019, 108, 572-577.	16.4	27
54	Identification of an Esterase Isolated Using Metagenomic Technology which Displays an Unusual Substrate Scope and its Characterisation as an Enantioselective Biocatalyst. Advanced Synthesis and Catalysis, 2019, 361, 2466-2474.	4.3	2

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55	A binary symmetric based hybrid meta-heuristic method for solving mixed integer unit commitment problem integrating with significant plug-in electric vehicles. <i>Energy</i> , 2019, 170, 889-905.	8.8	40
56	Ensemble methods of classification for power systems security assessment. <i>Applied Computing and Informatics</i> , 2019, 15, 45-53.	5.9	30
57	How are cities planning to respond to climate change? Assessment of local climate plans from 885 cities in the EU-28. <i>Journal of Cleaner Production</i> , 2018, 191, 207-219.	9.3	361
58	Sustainable development of energy, water and environment systems 2016. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1685-1690.	16.4	31
59	Quantification of anaerobic digestion feedstocks for a regional bioeconomy. <i>Proceedings of Institution of Civil Engineers: Waste and Resource Management</i> , 2018, 171, 94-103.	0.8	5
60	Volterra Models in Load Leveling Problem. <i>E3S Web of Conferences</i> , 2018, 69, 01015.	0.5	6
61	Review of frequency stability services for grid balancing with wind generation. <i>Journal of Engineering</i> , 2018, 2018, 1061-1065.	1.1	16
62	Gas generation and wind power: A review of unlikely allies in the United Kingdom and Ireland. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 757-768.	16.4	35
63	Hydrolase-mediated resolution of the hemiacetal in 2-chromanols: The impact of remote substitution. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 577-585.	1.8	8
64	A spatial and temporal correlation analysis of aggregate wind power in an ideally interconnected Europe. <i>Wind Energy</i> , 2017, 20, 1315-1329.	4.2	59
65	Impact of variation of the acyl group on the efficiency and selectivity of the lipase-mediated resolution of 2-phenylalkanols. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 1144-1153.	1.8	6
66	An Analysis of Wind Curtailment and Constraint at a Nodal Level. <i>IEEE Transactions on Sustainable Energy</i> , 2017, 8, 488-495.	8.8	20
67	A multi vector energy analysis for interconnected power and gas systems. <i>Applied Energy</i> , 2017, 192, 315-328.	10.1	43
68	A state-of-the-art review and feasibility analysis of high altitude wind power in Northern Ireland. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 899-911.	16.4	39
69	Time series wind power forecasting based on variant Gaussian Process and TLBO. <i>Neurocomputing</i> , 2016, 189, 135-144.	5.9	52
70	A novel methodology for analysis of large scale interconnected power and gas systems. , 2016, , .		2
71	Optimal generation scheduling of interconnected wind&coal intensive power systems. <i>IET Generation, Transmission and Distribution</i> , 2016, 10, 3276-3287.	2.5	8
72	System flexibility provision using short term grid scale storage. <i>IET Generation, Transmission and Distribution</i> , 2016, 10, 697-703.	2.5	18

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73	National climate policies across Europe and their impacts on cities strategies. Journal of Environmental Management, 2016, 168, 36-45.	7.8	127
74	The importance of gas infrastructure in power systems with high wind power penetrations. Applied Energy, 2016, 167, 294-304.	10.1	52
75	Hybrid Probabilistic Wind Power Forecasting Using Temporally Local Gaussian Process. IEEE Transactions on Sustainable Energy, 2016, 7, 87-95.	8.8	121
76	Domestic fridge-freezer load aggregation to support ancillary services. Renewable Energy, 2016, 87, 954-964.	8.9	21
77	Review of Virtual Power Plant Applications for Power System Management and Vehicle-to-Grid Market Development. Transactions of the Korean Institute of Electrical Engineers, 2016, 65, 2251-2261.	0.1	8
78	What do high penetrations of wind power mean for gas generation?. , 2015, , .		1
79	The significance of interconnector counter-trading in a security constrained electricity market. Energy Policy, 2015, 87, 110-124.	8.8	12
80	Special condition wind power forecasting based on Gaussian Process and similar historical data. , 2015, , .		3
81	Electric vehicle capacity forecasting model with application to load levelling. , 2015, , .		8
82	An aggregated fridge-freezer peak shaving and valley filling control strategy for enhanced grid operations. , 2015, , .		2
83	Flexible fault ride through strategy for wind farm clusters in power systems with high wind power penetration. Energy Conversion and Management, 2015, 93, 239-248.	9.2	37
84	Computational scheduling methods for integrating plug-in electric vehicles with power systems: A review. Renewable and Sustainable Energy Reviews, 2015, 51, 396-416.	16.4	182
85	Analysis of electric vehicle charging using the traditional generation expansion planning analysis tool WASP-IV. Journal of Modern Power Systems and Clean Energy, 2015, 3, 240-248.	5.4	14
86	The impact of short term storage on power system operation. , 2015, , .		3
87	Unit commitment considering multiple charging and discharging scenarios of plug-in electric vehicles. , 2015, , .		3
88	A long-term analysis of pumped hydro storage to firm wind power. Applied Energy, 2015, 137, 638-648.	10.1	89
89	Impact of Electric Vehicles on a Carbon Constrained Power System—A Post 2020 Case Study. Journal of Power and Energy Engineering, 2015, 03, 114-122.	0.6	12
90	Non-convex dynamic economic/environmental dispatch with plug-in electric vehicle loads. , 2014, , .		6

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91	A self-learning TLBO based dynamic economic/environmental dispatch considering multiple plug-in electric vehicle loads. <i>Journal of Modern Power Systems and Clean Energy</i> , 2014, 2, 298-307.	5.4	104
92	A new self-learning TLBO algorithm for RBF neural modelling of batteries in electric vehicles. , 2014, , .		13
93	A smart load appliance application using a single compressor fridge-freezer to support grid operations. , 2014, , .		4
94	Climate change response in Europe: whatâ€™s the reality? Analysis of adaptation and mitigation plans from 200 urban areas in 11 countries. <i>Climatic Change</i> , 2014, 122, 331-340.	3.6	293
95	Impact of offshore wind power forecast error in a carbon constraint electricity market. <i>Energy</i> , 2014, 76, 187-197.	8.8	31
96	The evolution of offshore wind power in the United Kingdom. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 37, 599-612.	16.4	141
97	Optimal Scheduling Methods to Integrate Plug-in Electric Vehicles with the Power System: A Review. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 8594-8603.	0.4	19
98	Managing Future offshore wind power variability in a European Supergrid. , 2013, , .		5
99	A methodology to analyse the impact of offshore wind forecasting error on electricity markets. , 2013, , .		1
100	Review of offshore wind power development in the United Kingdom. , 2013, , .		14
101	Impacts of Electric Vehicle charging under electricity market operations. <i>Applied Energy</i> , 2013, 101, 93-102.	10.1	235
102	Addressing the technical and market challenges to high wind power integration in Ireland. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 19, 692-703.	16.4	67
103	Impacts of compressed air energy storage plant on an electricity market with a large renewable energy portfolio. <i>Energy</i> , 2013, 57, 85-94.	8.8	95
104	Offshore wind resource estimation using wave buoy data. , 2012, , .		4
105	Integrating wind power using intelligent electric water heating. <i>Energy</i> , 2012, 48, 135-143.	8.8	55
106	Wind generation output during cold weather-driven electricity demand peaks in Ireland. <i>Energy</i> , 2012, 39, 48-53.	8.8	29
107	Current methods and advances in forecasting of wind power generation. <i>Renewable Energy</i> , 2012, 37, 1-8.	8.9	972
108	A strategic review of electricity systems models. <i>Energy</i> , 2010, 35, 4522-4530.	8.8	226

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109	Electric vehicles and displaced gaseous emissions. , 2010, , .		9
110	Wind power forecasting & prediction methods. , 2010, , .		36
111	State-of-the-art in electric vehicle charging infrastructure. , 2010, , .		73
112	Electric Vehicles and energy storage — a case study on Ireland. , 2009, , .		12
113	Wind energy integration and the Ireland-Wales interconnector. , 2009, , .		13