Catalina Spataru

List of Publications by Year
in descending order

38 papers	1,452 citations	516710 16 h-index	454955 30 g-index
38 all docs	38 docs citations	38 times ranked	2071 citing authors

#	Article	IF	Citations
1	Forecasting Solar Home System Customers' Electricity Usage with a 3D Convolutional Neural Network to Improve Energy Access. Energies, 2022, 15, 857.	3.1	3
2	Scottish Islands Interconnections: Modelling the Impacts on the UK Electricity Network of Geographically Diverse Wind and Marine Energy. Energies, 2021, 14, 3175.	3.1	3
3	A Comparative Environmental Assessment of Heat Pumps and Gas Boilers towards a Circular Economy in the UK. Energies, 2021, 14, 3027.	3.1	20
4	Quantifying the integration of renewable energy sources in West Africa's interconnected electricity network. Renewable and Sustainable Energy Reviews, 2020, 120, 109647.	16.4	20
5	Long Term analysis of submarine transmission grid extensions between the Greek islands and the mainland. , 2019, , .		6
6	Modelling electrical interconnections for Rhodes island power system. , 2019, , .		0
7	Modelling and forecasting hourly electricity demand in West African countries. Applied Energy, 2019, 242, 311-333.	10.1	69
8	Domestic demand-side response on district heating networks. Building Research and Information, 2019, 47, 330-343.	3.9	30
9	Comparison of CST with different hours of storage in the Australian National Electricity Market. Renewable Energy, 2018, 122, 487-496.	8.9	3
10	Mapping synergies and trade-offs between energy and the Sustainable Development Goals. Nature Energy, 2018, 3, 10-15.	39.5	639
11	Resource nexus perspectives towards the United Nations Sustainable Development Goals. Nature Sustainability, 2018, 1, 737-743.	23.7	236
12	Sustainable development of the West African Power Pool: Increasing solar energy integration and regional electricity trade. Energy for Sustainable Development, 2018, 45, 124-134.	4.5	24
13	Sustainable island power system – Scenario analysis for Crete under the energy trilemma index. Sustainable Cities and Society, 2018, 41, 378-391.	10.4	23
14	Integrating the views and perceptions of UK energy professionals in future energy scenarios to inform policymakers. Energy Policy, 2017, 104, 155-170.	8.8	4
15	Evaluation of ice thermal energy storage (ITES) for commercial buildings in cities in Brazil. Sustainable Cities and Society, 2017, 29, 178-192.	10.4	47
16	The vulnerability of refrigerated food to unstable power supplies. Energy Procedia, 2017, 123, 196-203.	1.8	8
17	Transforming the Greek Cycladic islands into a wind energy hub. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2017, 170, 113-129.	0.7	3
18	Potential economic and environmental benefits from the interconnection of the Greek islands. International Journal of Global Warming, 2017, 13, 426.	0.5	0

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19	Wind offshore energy in the Northern Aegean Sea islanding region. , 2016, , .		3
20	DynEMo: A Dynamic Energy Model for the Exploration of Energy, Society and Environment. , 2015, , .		7
21	Geographical Information System as Support Tool for Sustainable Energy Action Plan. Energy Procedia, 2015, 83, 310-319.	1.8	22
22	The use of natural gas pipeline network with different energy carriers. Energy Strategy Reviews, 2015, 8, 72-81.	7.3	12
23	Investigation of High Renewable Energy Penetration in the Island of Syros Following the Interconnection with the National Grid System. Energy Procedia, 2015, 83, 237-247.	1.8	8
24	Integrating regional electricity markets towards a single European market. , 2015, , .		4
25	Techno-economic Assessment for Optimal Energy Storage Mix. Energy Procedia, 2015, 83, 515-524.	1.8	18
26	Assessing demand response with heat pumps for efficient grid operation in smart grids. Sustainable Cities and Society, 2015, 19, 136-143.	10.4	40
27	Long-term scenarios for reaching climate targets and energy security in UK. Sustainable Cities and Society, 2015, 17, 95-109.	10.4	35
28	Evaluating the accuracy of CFSR reanalysis hourly wind speed forecasts for the UK, using in situ measurements and geographical information. Renewable Energy, 2015, 77, 527-538.	8.9	94
29	How to monitor people â€˜smartlyâ€™ to help reducing energy consumption in buildings?. Architectural Engineering and Design Management, 2014, 10, 60-78.	1.7	21
30	A systems paradigm for integrated building design. Intelligent Buildings International, 2014, 6, 201-214.	2.3	3
31	An Analysis of the Impact of Bioenergy and Geosequestration in the UK Future Energy System. Energy Procedia, 2014, 62, 733-742.	1.8	2
32	Energy networks: A modelling framework for European optimal cross-border trades. , 2014, , .		2
33	Past Trends for the UK Energy Scenarios: How Close are their Predictions to Reality?. Energy Procedia, 2014, 62, 442-451.	1.8	5
34	PV System Performance and the Potential Impact of the Green Deal Policy on Market Growth in London, UK. Energy Procedia, 2013, 42, 347-356.	1.8	7
35	The importance of optimization and controls in future intelligent grids. , 2013, , .		2
36	Storage in Energy Systems. Energy Procedia, 2013, 42, 670-679.	1.8	1

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37	The use of intelligent systems for monitoring energy use and occupancy in existing homes. Intelligent Buildings International, 2011, 3, 24-31.	2.3	9
38	Domestic energy and occupancy: a novel post-occupancy evaluation study. International Journal of Low-Carbon Technologies, 2010, 5, 148-157.	2.6	19