

Catalina Spataru

List of Publications by Year in descending order

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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	Mapping synergies and trade-offs between energy and the Sustainable Development Goals. <i>Nature Energy</i> , 2018, 3, 10-15.	39.5	639
2	Resource nexus perspectives towards the United Nations Sustainable Development Goals. <i>Nature Sustainability</i> , 2018, 1, 737-743.	23.7	236
3	Evaluating the accuracy of CFSR reanalysis hourly wind speed forecasts for the UK, using in situ measurements and geographical information. <i>Renewable Energy</i> , 2015, 77, 527-538.	8.9	94
4	Modelling and forecasting hourly electricity demand in West African countries. <i>Applied Energy</i> , 2019, 242, 311-333.	10.1	69
5	Evaluation of ice thermal energy storage (ITES) for commercial buildings in cities in Brazil. <i>Sustainable Cities and Society</i> , 2017, 29, 178-192.	10.4	47
6	Assessing demand response with heat pumps for efficient grid operation in smart grids. <i>Sustainable Cities and Society</i> , 2015, 19, 136-143.	10.4	40
7	Long-term scenarios for reaching climate targets and energy security in UK. <i>Sustainable Cities and Society</i> , 2015, 17, 95-109.	10.4	35
8	Domestic demand-side response on district heating networks. <i>Building Research and Information</i> , 2019, 47, 330-343.	3.9	30
9	Sustainable development of the West African Power Pool: Increasing solar energy integration and regional electricity trade. <i>Energy for Sustainable Development</i> , 2018, 45, 124-134.	4.5	24
10	Sustainable island power system “ Scenario analysis for Crete under the energy trilemma index. <i>Sustainable Cities and Society</i> , 2018, 41, 378-391.	10.4	23
11	Geographical Information System as Support Tool for Sustainable Energy Action Plan. <i>Energy Procedia</i> , 2015, 83, 310-319.	1.8	22
12	How to monitor people “smartly” to help reducing energy consumption in buildings?. <i>Architectural Engineering and Design Management</i> , 2014, 10, 60-78.	1.7	21
13	Quantifying the integration of renewable energy sources in West Africa's interconnected electricity network. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 120, 109647.	16.4	20
14	A Comparative Environmental Assessment of Heat Pumps and Gas Boilers towards a Circular Economy in the UK. <i>Energies</i> , 2021, 14, 3027.	3.1	20
15	Domestic energy and occupancy: a novel post-occupancy evaluation study. <i>International Journal of Low-Carbon Technologies</i> , 2010, 5, 148-157.	2.6	19
16	Techno-economic Assessment for Optimal Energy Storage Mix. <i>Energy Procedia</i> , 2015, 83, 515-524.	1.8	18
17	The use of natural gas pipeline network with different energy carriers. <i>Energy Strategy Reviews</i> , 2015, 8, 72-81.	7.3	12
18	The use of intelligent systems for monitoring energy use and occupancy in existing homes. <i>Intelligent Buildings International</i> , 2011, 3, 24-31.	2.3	9

#	ARTICLE	IF	CITATIONS
19	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
20	The vulnerability of refrigerated food to unstable power supplies. Energy Procedia, 2017, 123, 196-203.	1.8	8
21	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
22	DynEMo: A Dynamic Energy Model for the Exploration of Energy, Society and Environment. , 2015, , .		7
23	Long Term analysis of submarine transmission grid extensions between the Greek islands and the mainland. , 2019, , .		6
24	Past Trends for the UK Energy Scenarios: How Close are their Predictions to Reality?. Energy Procedia, 2014, 62, 442-451.	1.8	5
25	Integrating regional electricity markets towards a single European market. , 2015, , .		4
26	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
27	A systems paradigm for integrated building design. Intelligent Buildings International, 2014, 6, 201-214.	2.3	3
28	Wind offshore energy in the Northern Aegean Sea islanding region. , 2016, , .		3
29	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
30	Comparison of CST with different hours of storage in the Australian National Electricity Market. Renewable Energy, 2018, 122, 487-496.	8.9	3
31	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
32	Forecasting Solar Home System Customersâ€™ Electricity Usage with a 3D Convolutional Neural Network to Improve Energy Access. Energies, 2022, 15, 857.	3.1	3
33	The importance of optimization and controls in future intelligent grids. , 2013, , .		2
34	An Analysis of the Impact of Bioenergy and Geosequestration in the UK Future Energy System. Energy Procedia, 2014, 62, 733-742.	1.8	2
35	Energy networks: A modelling framework for European optimal cross-border trades. , 2014, , .		2
36	Storage in Energy Systems. Energy Procedia, 2013, 42, 670-679.	1.8	1

#	ARTICLE	IF	CITATIONS
37	Modelling electrical interconnections for Rhodes island power system. , 2019, , .		0
38	Potential economic and environmental benefits from the interconnection of the Greek islands. International Journal of Global Warming, 2017, 13, 426.	0.5	0