

Irma ChacÃ³n

List of Publications by Year in descending order

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33
papers

909
citations

623734

14
h-index

454955

30
g-index

34
all docs

34
docs citations

34
times ranked

1013
citing authors

#	ARTICLE	IF	CITATIONS
1	Solidarity measures: Assessment of strategic gas storage on EU regional risk groups natural gas supply resilience. <i>Applied Energy</i> , 2022, 308, 118356.	10.1	12
2	Translating observed household energy behavior to agent-based technology choices in an integrated modeling framework. <i>IScience</i> , 2022, 25, 103905.	4.1	7
3	Opportunities for Low Indirect Land Use Biomass for Biofuels in Europe. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4623.	2.5	9
4	Geospatial and temporal estimation of climatic, end-use demands, and socioeconomic drivers of energy consumption in the residential sector in Ecuador. <i>Energy Conversion and Management</i> , 2022, 261, 115629.	9.2	4
5	North American energy system responses to natural gas price shocks. <i>Energy Policy</i> , 2021, 149, 112046.	8.8	15
6	A bottom-up appraisal of the technically installable capacity of biogas-based solid oxide fuel cells for self power generation in wastewater treatment plants. <i>Journal of Environmental Management</i> , 2021, 279, 111753.	7.8	6
7	The role of energy storage in the uptake of renewable energy: A model comparison approach. <i>Energy Policy</i> , 2021, 151, 112159.	8.8	34
8	Low-cost emissions cuts in container shipping: Thinking inside the box. <i>Transportation Research, Part D: Transport and Environment</i> , 2021, 94, 102815.	6.8	10
9	Challenges in the harmonisation of global integrated assessment models: A comprehensive methodology to reduce model response heterogeneity. <i>Science of the Total Environment</i> , 2021, 783, 146861.	8.0	32
10	Geospatial Big Data analytics to model the long-term sustainable transition of residential heating worldwide. , 2021, , .		2
11	Long-term development of the industrial sector – Case study about electrification, fuel switching, and CCS in the USA. <i>Computers and Chemical Engineering</i> , 2020, 133, 106602.	3.8	35
12	Strategic Biorefining Supply Chain Design for Novel Products in Immature Markets. <i>Computer Aided Chemical Engineering</i> , 2020, 48, 1579-1584.	0.5	0
13	Key findings from the core North American scenarios in the EMF34 intermodel comparison. <i>Energy Policy</i> , 2020, 144, 111599.	8.8	21
14	Modelling Future Agricultural Mechanisation of Major Crops in China: An Assessment of Energy Demand, Land Use and Emissions. <i>Energies</i> , 2020, 13, 6636.	3.1	2
15	Agent-based scenarios comparison for assessing fuel-switching investment in long-term energy transitions of the India’s industry sector. <i>Applied Energy</i> , 2020, 274, 115295.	10.1	14
16	Modelling the technical potential of bioelectricity production under land use constraints: A multi-region Brazil case study. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 123, 109765.	16.4	12
17	Implications of Future Natural Gas Demand on Sugarcane Production, Land Use Change and Related Emissions in Brazil. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2020, 8, 304-327.	1.9	1
18	Carbon Sequestration Potential from Large-Scale Reforestation and Sugarcane Expansion on Abandoned Agricultural Lands in Brazil. <i>Polytechnica</i> , 2019, 2, 9-25.	2.1	5

#	ARTICLE	IF	CITATIONS
19	Modelling cost-effective pathways for natural gas infrastructure: A southern Brazil case study. Applied Energy, 2019, 255, 113799.	10.1	14
20	A novel energy systems model to explore the role of land use and reforestation in achieving carbon mitigation targets: A Brazil case study. Journal of Cleaner Production, 2019, 232, 796-821.	9.3	27
21	Clustered spatially and temporally resolved global heat and cooling energy demand in the residential sector. Applied Energy, 2019, 250, 48-62.	10.1	33
22	An agent-based model for energy investment decisions in the residential sector. Energy, 2019, 172, 752-768.	8.8	47
23	A dynamic model of global natural gas supply. Applied Energy, 2018, 218, 452-469.	10.1	49
24	Techno-economic assessment of biogas-fed solid oxide fuel cell combined heat and power system at industrial scale. Applied Energy, 2018, 211, 689-704.	10.1	63
25	Supply Chain Mixed Integer Linear Program Model Integrating a Biorefining Technology Superstructure. Industrial & Engineering Chemistry Research, 2018, 57, 9849-9865.	3.7	10
26	An optimization method to estimate the SOFC market in waste water treatment. Computer Aided Chemical Engineering, 2018, 43, 415-420.	0.5	1
27	Biobased Supply Chain Optimisation Model under Uncertainties. Computer Aided Chemical Engineering, 2017, , 961-966.	0.5	3
28	Techno-economic assessment of the production of phthalic anhydride from corn stover. Chemical Engineering Research and Design, 2016, 107, 181-194.	5.6	29
29	Lignocellulosic supply chain MILP model: a Hungarian case study. Computer Aided Chemical Engineering, 2016, , 253-258.	0.5	3
30	Integration of biomass into urban energy systems for heat and power. Part I: An MILP based spatial optimization methodology. Energy Conversion and Management, 2014, 83, 347-361.	9.2	52
31	Spatially Explicit Multiobjective Optimization for the Strategic Design of First and Second Generation Biorefineries Including Carbon and Water Footprints. Industrial & Engineering Chemistry Research, 2013, 52, 7170-7180.	3.7	55
32	A comprehensive approach to the design of ethanol supply chains including carbon trading effects. Bioresource Technology, 2012, 107, 175-185.	9.6	121
33	Spatially explicit multi-objective optimisation for design and planning of hybrid first and second generation biorefineries. Computers and Chemical Engineering, 2011, 35, 1782-1797.	3.8	174