

Irma ChacÃ³n

List of Publications by Year in descending order

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39
papers

1,008
citations

394421

19
h-index

434195

31
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41
all docs

41
docs citations

41
times ranked

1226
citing authors

#	ARTICLE	IF	CITATIONS
1	Design optimization of a polygeneration plant fuelled by natural gas and renewable energy sources. <i>Applied Energy</i> , 2011, 88, 449-457.	10.1	146
2	Sizing criteria of hybrid photovoltaic-wind systems with battery storage and self-consumption considering interaction with the grid. <i>Solar Energy</i> , 2013, 98, 582-591.	6.1	71
3	Accounting for GHG net reservoir emissions of hydropower in Ecuador. <i>Renewable Energy</i> , 2017, 112, 209-221.	8.9	63
4	Environmental impact of water supply and water use in a Mediterranean water stressed region. <i>Journal of Cleaner Production</i> , 2015, 88, 196-204.	9.3	51
5	An innovative urban energy system constituted by a photovoltaic/thermal hybrid solar installation: Design, simulation and monitoring. <i>Applied Energy</i> , 2017, 186, 140-151.	10.1	48
6	Exergy cost assessment of CSP driven multi-generation schemes: Integrating seawater desalination, refrigeration, and process heat plants. <i>Energy Conversion and Management</i> , 2019, 179, 249-269.	9.2	43
7	Sequential optimization of a polygeneration plant. <i>Energy Conversion and Management</i> , 2011, 52, 2861-2869.	9.2	40
8	Inventory of the exergy resources on earth including its mineral capital. <i>Energy</i> , 2010, 35, 989-995.	8.8	39
9	Photovoltaics on flat roofs: Energy considerations. <i>Energy</i> , 2011, 36, 1996-2010.	8.8	37
10	Performance analysis and experimental validation of a solar-assisted heat pump fed by photovoltaic-thermal collectors. <i>Energy</i> , 2019, 169, 1214-1223.	8.8	37
11	Exergy analysis applied to the estimation of the recovery of costs for water services under the European Water Framework Directive. <i>Ecological Modelling</i> , 2010, 221, 2123-2132.	2.5	35
12	Analysis of a domestic trigeneration scheme with hybrid renewable energy sources and desalting techniques. <i>Journal of Cleaner Production</i> , 2019, 212, 1409-1422.	9.3	32
13	Chemical exergy assessment of organic matter in a water flow. <i>Energy</i> , 2010, 35, 77-84.	8.8	26
14	A new indicator to estimate the efficiency of water and energy use in agro-industries. <i>Journal of Cleaner Production</i> , 2017, 143, 462-473.	9.3	25
15	Exergy assessment and exergy cost analysis of a renewable-based and hybrid trigeneration scheme for domestic water and energy supply. <i>Energy</i> , 2019, 168, 662-683.	8.8	25
16	Determining the net environmental performance of hydropower: A new methodological approach by combining life cycle and ecosystem services assessment. <i>Science of the Total Environment</i> , 2020, 712, 136369.	8.0	25
17	On-grid and off-grid batch-ED (electrodialysis) process: Simulation and experimental tests. <i>Energy</i> , 2013, 57, 44-54.	8.8	24
18	Towards the optimization of convective losses in photovoltaic-thermal panels. <i>Solar Energy</i> , 2015, 116, 323-336.	6.1	24

#	ARTICLE	IF	CITATIONS
19	Estimating the hidden ecological costs of hydropower through an ecosystem services balance: A case study from Ecuador. <i>Journal of Cleaner Production</i> , 2019, 233, 33-42.	9.3	21
20	Physical Hydronomics: Application of the exergy analysis to the assessment of environmental costs of water bodies. The case of the inland basins of Catalonia. <i>Energy</i> , 2009, 34, 2101-2107.	8.8	18
21	Exergy cost of water supply and water treatment technologies. <i>Desalination and Water Treatment</i> , 2010, 24, 123-131.	1.0	18
22	Dynamic Simulation of a Trigeneration Scheme for Domestic Purposes Based on Hybrid Techniques. <i>Energies</i> , 2016, 9, 1013.	3.1	16
23	Life cycle analysis of urban water cycle in two Spanish areas: Inland city and island area. <i>Desalination and Water Treatment</i> , 2013, 51, 280-291.	1.0	15
24	Environmental costs of a river watershed within the European water framework directive: Results from physical hydronomics. <i>Energy</i> , 2010, 35, 1008-1016.	8.8	14
25	Life cycle assessment of the supply and use of water in the Segura Basin. <i>International Journal of Life Cycle Assessment</i> , 2014, 19, 688-704.	4.7	14
26	Batch ED fed by a PV unit: a reliable, flexible, and sustainable integration. <i>Desalination and Water Treatment</i> , 2013, 51, 673-685.	1.0	13
27	Energy and environmental benefits of an integrated solar photovoltaic and thermal hybrid, seasonal storage and heat pump system for social housing. <i>Applied Thermal Engineering</i> , 2022, 213, 118662.	6.0	13
28	An Advanced Multicarrier Residential Energy Hub System Based on Mixed Integer Linear Programming. <i>International Journal of Photoenergy</i> , 2019, 2019, 1-12.	2.5	11
29	Exergy costs analysis of water desalination and purification techniques by transfer functions. <i>Energy Conversion and Management</i> , 2016, 126, 51-59.	9.2	10
30	Modelling and Simulation of a Building Energy Hub. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	10
31	Photovoltaic system for brackish water desalination by electrodialysis and electricity generation. <i>Desalination and Water Treatment</i> , 2009, 7, 142-151.	1.0	7
32	Exergy Assessment and Thermo-Economic Analysis of Hybrid Solar Systems with Seasonal Storage and Heat Pump Coupling in the Social Housing Sector in Zaragoza. <i>Energies</i> , 2021, 14, 1279.	3.1	7
33	Exergy costs analysis of groundwater use and water transfers. <i>Energy Conversion and Management</i> , 2016, 110, 419-427.	9.2	6
34	Exergy as a guide to allocate environmental costs for implementing the Water Framework Directive in the Ebro River. <i>Desalination and Water Treatment</i> , 2013, 51, 4207-4217.	1.0	5
35	Hydropower and environmental sustainability: A holistic assessment using multiple biophysical indicators. <i>Ecological Indicators</i> , 2021, 127, 107748.	6.3	5
36	Polygeneration plants to supply energy and desalted water in hotels located at the Spanish coast. <i>Desalination and Water Treatment</i> , 2009, 7, 132-141.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Assessment of Environmental Water Cost Through Physical Hydromomics. Water Resources Management, 2011, 25, 2931-2949.	3.9	4
38	Analysis of the Experimental Integration of Thermoelectric Generators in Photovoltaicâ€“Thermal Hybrid Panels. Applied Sciences (Switzerland), 2021, 11, 2915.	2.5	3
39	The hidden value of water flows: the chemical exergy of rivers. International Journal of Thermodynamics, 2012, 15, .	1.0	2