

# Sergio Usn

## List of Publications by Citations

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32  
papers

868  
citations

18  
h-index

29  
g-index

32  
ext. papers

967  
ext. citations

6.9  
avg, IF

4.47  
L-index

#	Paper	IF	Citations
32	Exergy analysis of a Combined Cooling, Heating and Power system integrated with wind turbine and compressed air energy storage system. <i>Energy Conversion and Management</i> , <b>2017</b> , 131, 69-78	10.6	164
31	Oxy-co-gasification of coal and biomass in an integrated gasification combined cycle (IGCC) power plant. <i>Energy</i> , <b>2006</b> , 31, 1643-1655	7.9	100
30	Thermodynamic analysis and optimization of a waste heat recovery system for proton exchange membrane fuel cell using transcritical carbon dioxide cycle and cold energy of liquefied natural gas. <i>Journal of Natural Gas Science and Engineering</i> , <b>2016</b> , 34, 428-438	4.6	64
29	Thermoeconomic assessment of a natural gas expansion system integrated with a co-generation unit. <i>Applied Energy</i> , <b>2013</b> , 101, 58-66	10.7	56
28	Exergy analysis as a tool for the integration of very complex energy systems: The case of carbonation/calcination CO <sub>2</sub> systems in existing coal power plants. <i>International Journal of Greenhouse Gas Control</i> , <b>2010</b> , 4, 647-654	4.2	41
27	Comparative evaluation of a natural gas expansion plant integrated with an IC engine and an organic Rankine cycle. <i>Energy Conversion and Management</i> , <b>2013</b> , 75, 509-516	10.6	40
26	Application of Thermoeconomics to Industrial Ecology. <i>Entropy</i> , <b>2010</b> , 12, 591-612	2.8	40
25	Thermoeconomic tools for the analysis of eco-industrial parks. <i>Energy</i> , <b>2013</b> , 62, 62-72	7.9	37
24	Energy and exergy analysis of R1234yf as drop-in replacement for R134a in a domestic refrigeration system. <i>Energy</i> , <b>2017</b> , 132, 116-125	7.9	35
23	Thermoeconomics and Industrial Symbiosis. Effect of by-product integration in cost assessment. <i>Energy</i> , <b>2012</b> , 45, 43-51	7.9	33
22	Energy efficiency assessment and improvement in energy intensive systems through thermoeconomic diagnosis of the operation. <i>Applied Energy</i> , <b>2010</b> , 87, 1989-1995	10.7	24
21	Numerical study of cullet glass subjected to microwave heating and SiC susceptor effects. Part I: Combined electric and thermal model. <i>Energy Conversion and Management</i> , <b>2015</b> , 97, 439-457	10.6	22
20	Thermoeconomic cost of electricity production in the natural gas pressure reduction process. <i>Energy</i> , <b>2014</b> , 76, 10-18	7.9	22
19	Analysis of a domestic trigeneration scheme with hybrid renewable energy sources and desalting techniques. <i>Journal of Cleaner Production</i> , <b>2019</b> , 212, 1409-1422	10.3	22
18	Exergy transfer analysis of an aluminum holding furnace. <i>Energy Conversion and Management</i> , <b>2015</b> , 89, 484-496	10.6	21
17	Exergy transfer analysis of microwave heating systems. <i>Energy</i> , <b>2014</b> , 68, 349-363	7.9	21
16	Exergy assessment and exergy cost analysis of a renewable-based and hybrid trigeneration scheme for domestic water and energy supply. <i>Energy</i> , <b>2019</b> , 168, 662-683	7.9	20

15	Thermoeconomic diagnosis for improving the operation of energy intensive systems: Comparison of methods. <i>Applied Energy</i> , <b>2011</b> , 88, 699-711	10.7	19
14	Thermoeological cost of electricity, heat and cold generated in a trigeneration module fuelled with selected fossil and renewable fuels. <i>Energy</i> , <b>2015</b> , 92, 308-319	7.9	17
13	Local exergy cost analysis of microwave heating systems. <i>Energy</i> , <b>2015</b> , 80, 437-451	7.9	15
12	Dynamic Simulation of a Trigeneration Scheme for Domestic Purposes Based on Hybrid Techniques. <i>Energies</i> , <b>2016</b> , 9, 1013	3.1	13
11	The fossil trace of CO2 emissions in multi-fuel energy systems. <i>Energy</i> , <b>2013</b> , 58, 236-246	7.9	9
10	Local exergy cost analysis of cullet glass heating by microwaves. <i>Applied Thermal Engineering</i> , <b>2019</b> , 152, 778-795	5.8	7
9	Assessing maize production systems in Mexico from an energy, exergy, and greenhouse-gas emissions perspective. <i>Energy</i> , <b>2019</b> , 170, 199-211	7.9	7
8	Numerical study of cullet glass subjected to microwave heating and SiC susceptor effects. Part II: Exergy transfer analysis. <i>Energy Conversion and Management</i> , <b>2015</b> , 97, 458-469	10.6	6
7	Experimental tests to validate the simulation model of a Domestic Trigeneration Scheme with hybrid RESs and Desalting Techniques. <i>Renewable Energy</i> , <b>2020</b> , 155, 407-419	8.1	5
6	Theory of Exergy Cost and Thermo-ecological Cost. <i>Green Energy and Technology</i> , <b>2017</b> , 167-202	0.6	3
5	Integration of Thermoelectric generators (TEG) in Solar PVT panels. <i>Renewable Energy and Power Quality Journal</i> , <b>17</b> , 495-499		2
4	Exergo-ecological Assessment of Multi-generation Energy Systems. <i>Green Energy and Technology</i> , <b>2017</b> , 405-442	0.6	1
3	Fundamentals of Exergy Analysis. <i>Green Energy and Technology</i> , <b>2017</b> , 37-80	0.6	1
2	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> , <b>2021</b> , 14, 1279	3.1	1
1	Application of Thermo-economic Analysis (TEA) to Industrial Ecology (IE). <i>Green Energy and Technology</i> , <b>2017</b> , 353-370	0.6	