

Victor Hugo Rangel-Hernandez

List of Publications by Year in descending order

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papers

608
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567281

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557
citing authors

#	ARTICLE	IF	CITATIONS
1	An acoustic emission analysis of glass-ceramic sealants for solid oxide fuel and electrolysis cells exposed to torsional tests: Room and high-temperature experiments. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 14724-14734.	7.1	3
2	Impact of operational and design variables on the thermodynamic behavior of a simulated 500 kW _{th} -fueled solid oxide fuel cell stack. <i>Energy Conversion and Management</i> , 2020, 204, 112283.	9.2	4
3	An experimental investigation of fracture processes in glass-ceramic sealant by means of acoustic emission. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27539-27550.	7.1	4
4	An Advanced Exergoeconomic Comparison of CO ₂ -Based Transcritical Refrigeration Cycles. <i>Energies</i> , 2020, 13, 6454.	3.1	5
5	Degradation Analysis of an SOFC Short Stack Subject to 10,000 h of Operation. <i>Journal of the Electrochemical Society</i> , 2020, 167, 144508.	2.9	17
6	The Exergy Costs of Electrical Power, Cooling, and Waste Heat from a Hybrid System Based on a Solid Oxide Fuel Cell and an Absorption Refrigeration System. <i>Energies</i> , 2019, 12, 3476.	3.1	7
7	Exergoeconomic performance comparison of R1234yf as a drop-in replacement for R134a in a domestic refrigerator. <i>International Journal of Refrigeration</i> , 2019, 100, 113-123.	3.4	19
8	Comparison of the thermo-hydraulic performance and the entropy generation rate for two types of low temperature solar collectors using CFD. <i>Solar Energy</i> , 2018, 166, 123-137.	6.1	19
9	Energy and entropy study of a SOFC using biogas from different sources considering internal reforming of methane. <i>International Journal of Heat and Mass Transfer</i> , 2018, 120, 1044-1054.	4.8	21
10	Parametric analysis of the exergoeconomic variables of a solid oxide fuel cell (SOFC) coupled with a vapour-adsorption refrigeration system (VARS). <i>Energy Conversion and Management</i> , 2018, 172, 428-437.	9.2	21
11	Numerical simulation of a pilot-scale reactor under different operating modes: Combustion, gasification and pyrolysis. <i>Biomass and Bioenergy</i> , 2018, 116, 80-88.	5.7	10
12	Application of an exergy-based thermo characterization approach to diagnose the operation of a biomass-fueled gasifier. <i>Biomass and Bioenergy</i> , 2018, 116, 1-7.	5.7	4
13	Energy and exergy analysis of R1234yf as drop-in replacement for R134a in a domestic refrigeration system. <i>Energy</i> , 2017, 132, 116-125.	8.8	45
14	Arsenic removal from aqueous solutions and the impact of humic and fulvic acids. <i>Journal of Cleaner Production</i> , 2017, 159, 425-431.	9.3	43
15	Second Law Analysis of a Mobile Air Conditioning System with Internal Heat Exchanger Using Low GWP Refrigerants. <i>Entropy</i> , 2017, 19, 175.	2.2	18
16	Assessing the Exergy Costs of a 332-MW Pulverized Coal-Fired Boiler. <i>Entropy</i> , 2016, 18, 300.	2.2	5
17	Internal reforming of methane in a mono-block-layer build solid oxide fuel cell with an embedding porous pipe: Numerical analysis. <i>Energy Conversion and Management</i> , 2014, 79, 461-469.	9.2	13
18	Numerical modeling of SOFCs operating on biogas from biodigesters. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 377-384.	7.1	15

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19	Numerical Analysis of the Overlap Effect Between Blades at Four-Bladed Rooftop VAWT. , 2012, , .		0
20	Irreversibilities reduction of a flow distribution system by means of the EGM methodology. International Journal of Exergy, 2012, 10, 94.	0.4	1
21	Analysis of effect caused by fitting in the measurements of flow in air conditioning system. Applied Thermal Engineering, 2012, 33-34, 227-236.	6.0	2
22	Entropy generation analysis of a proton exchange membrane fuel cell (PEMFC) with a fermat spiral as a flow distributor. Energy, 2011, 36, 4864-4870.	8.8	33
23	Analysis of the conjugate heat transfer in a multi-layer wall including an air layer. Applied Thermal Engineering, 2010, 30, 599-604.	6.0	18
24	Hybrid Fuel Impact Reconciliation Method: An integral tool for thermoeconomic diagnosis. Energy, 2010, 35, 2079-2087.	8.8	5
25	Extended Exergy Analysis Applied to an Offshore Platform Flare Stack. , 2009, , .		0
26	Evaluating the Energy Requirements of Small-Scale Biodiesel Production From Raw Tallow of Tanning Industry. , 2009, , .		0
27	On the cost formation process of the residues. Energy, 2008, 33, 144-152.	8.8	99
28	Sensitivity of the Exergy Costs Due to Changes in the Most Relevant Variables of a Diesel Cycle- Based Cogeneration Power Plant. , 2007, , .		0
29	Four approaches compared on the TADEUS (thermoeconomic approach to the diagnosis of energy) Tj ETQq1 1 0.784314 rgBTj/Overlo	8.8	27
30	Thermoeconomic Costs of Production Analysis of a Diesel Cycle- Based Cogeneration Power Plant. , 2006, , .		0
31	Thermoeconomic Diagnosis of a Pulverized Coal-Fired Steam Generator. , 2005, , 491.		0
32	Local Exergy Cost Theory. , 2004, , 223.		5
33	On the thermoeconomic approach to the diagnosis of energy system malfunctionsPart 1: the TADEUS problem. Energy, 2004, 29, 1875-1887.	8.8	64
34	On the thermoeconomic approach to the diagnosis of energy system malfunctionsPart 2. Malfunction definitions and assessment. Energy, 2004, 29, 1889-1907.	8.8	76
35	Thermo-characterization of power systems components: a tool to diagnose their malfunctions. Energy, 2004, 29, 361-377.	8.8	5