

Victor Hugo Rangel-Hernandez

List of Publications by Year in descending order

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35
papers

608
citations

567281

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35
all docs

35
docs citations

35
times ranked

557
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | On the cost formation process of the residues. Energy, 2008, 33, 144-152. | 8.8 | 99 |
| 2 | On the thermoeconomic approach to the diagnosis of energy system malfunctionsPart 2. Malfunction definitions and assessment. Energy, 2004, 29, 1889-1907. | 8.8 | 76 |
| 3 | On the thermoeconomic approach to the diagnosis of energy system malfunctionsPart 1: the TADEUS problem. Energy, 2004, 29, 1875-1887. | 8.8 | 64 |
| 4 | Energy and exergy analysis of R1234yf as drop-in replacement for R134a in a domestic refrigeration system. Energy, 2017, 132, 116-125. | 8.8 | 45 |
| 5 | Arsenic removal from aqueous solutions and the impact of humic and fulvic acids. Journal of Cleaner Production, 2017, 159, 425-431. | 9.3 | 43 |
| 6 | 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 |
| 7 | Four approaches compared on the TADEUS (thermoeconomic approach to the diagnosis of energy) Tj ETQq1 1 0.784314 rgBT /Overload | 8.8 | 27 |
| 8 | Energy and entropy study of a SOFC using biogas from different sources considering internal reforming of methane. International Journal of Heat and Mass Transfer, 2018, 120, 1044-1054. | 4.8 | 21 |
| 9 | Parametric analysis of the exergoeconomic variables of a solid oxide fuel cell (SOFC) coupled with a vapour-adsorption refrigeration system (VARs). Energy Conversion and Management, 2018, 172, 428-437. | 9.2 | 21 |
| 10 | Comparison of the thermo-hydraulic performance and the entropy generation rate for two types of low temperature solar collectors using CFD. Solar Energy, 2018, 166, 123-137. | 6.1 | 19 |
| 11 | Exergoeconomic performance comparison of R1234yf as a drop-in replacement for R134a in a domestic refrigerator. International Journal of Refrigeration, 2019, 100, 113-123. | 3.4 | 19 |
| 12 | 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 |
| 13 | Second Law Analysis of a Mobile Air Conditioning System with Internal Heat Exchanger Using Low GWP Refrigerants. Entropy, 2017, 19, 175. | 2.2 | 18 |
| 14 | Degradation Analysis of an SOFC Short Stack Subject to 10,000 h of Operation. Journal of the Electrochemical Society, 2020, 167, 144508. | 2.9 | 17 |
| 15 | Numerical modeling of SOFCs operating on biogas from biodigesters. International Journal of Hydrogen Energy, 2013, 38, 377-384. | 7.1 | 15 |
| 16 | Internal reforming of methane in a mono-block-layer build solid oxide fuel cell with an embedding porous pipe: Numerical analysis. Energy Conversion and Management, 2014, 79, 461-469. | 9.2 | 13 |
| 17 | Numerical simulation of a pilot-scale reactor under different operating modes: Combustion, gasification and pyrolysis. Biomass and Bioenergy, 2018, 116, 80-88. | 5.7 | 10 |
| 18 | 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. Energies, 2019, 12, 3476. | 3.1 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Local Exergy Cost Theory. , 2004, , 223. | | 5 |
| 20 | Thermo-characterization of power systems components: a tool to diagnose their malfunctions. Energy, 2004, 29, 361-377. | 8.8 | 5 |
| 21 | Hybrid Fuel Impact Reconciliation Method: An integral tool for thermoeconomic diagnosis. Energy, 2010, 35, 2079-2087. | 8.8 | 5 |
| 22 | Assessing the Exergy Costs of a 332-MW Pulverized Coal-Fired Boiler. Entropy, 2016, 18, 300. | 2.2 | 5 |
| 23 | An Advanced Exergoeconomic Comparison of CO ₂ -Based Transcritical Refrigeration Cycles. Energies, 2020, 13, 6454. | 3.1 | 5 |
| 24 | Application of an exergy-based thermo characterization approach to diagnose the operation of a biomass-fueled gasifier. Biomass and Bioenergy, 2018, 116, 1-7. | 5.7 | 4 |
| 25 | Impact of operational and design variables on the thermodynamic behavior of a simulated 500 kW _{ng} -fueled solid oxide fuel cell stack. Energy Conversion and Management, 2020, 204, 112283. | 9.2 | 4 |
| 26 | An experimental investigation of fracture processes in glass-ceramic sealant by means of acoustic emission. International Journal of Hydrogen Energy, 2020, 45, 27539-27550. | 7.1 | 4 |
| 27 | An acoustic emission analysis of glass-ceramic sealants for solid oxide fuel and electrolysis cells exposed to torsional tests: Room and high-temperature experiments. International Journal of Hydrogen Energy, 2021, 46, 14724-14734. | 7.1 | 3 |
| 28 | 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 |
| 29 | Irreversibilities reduction of a flow distribution system by means of the EGM methodology. International Journal of Exergy, 2012, 10, 94. | 0.4 | 1 |
| 30 | Thermoeconomic Diagnosis of a Pulverized Coal-Fired Steam Generator. , 2005, , 491. | | 0 |
| 31 | Sensitivity of the Exergy Costs Due to Changes in the Most Relevant Variables of a Diesel Cycle- Based Cogeneration Power Plant. , 2007, , . | | 0 |
| 32 | Extended Exergy Analysis Applied to an Offshore Platform Flare Stack. , 2009, , . | | 0 |
| 33 | Numerical Analysis of the Overlap Effect Between Blades at Four-Bladed Rooftop VAWT. , 2012, , . | | 0 |
| 34 | Thermoeconomic Costs of Production Analysis of a Diesel Cycle- Based Cogeneration Power Plant. , 2006, , . | | 0 |
| 35 | Evaluating the Energy Requirements of Small-Scale Biodiesel Production From Raw Tallow of Tanning Industry. , 2009, , . | | 0 |