



Entropy and Exergy Analysis in Ejector-Based Systems

Guest Editor:

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Message from the Guest Editor

The ejector is a passive energy conversion device with three ports (primary flow inlet, secondary flow inlet, and outlet) that integrates the functions of pressure lift, mixing, and entrainment. Because of its simple structure, no moving parts, and no additional energy consumption, ejector technology is very attractive for many applications, and the interest of the scientific community in this component has exponentially increased in recent years. It has been widely used in refrigeration, fuel cells, aerospace, seawater desalination, chemical, process industries, and other fields.

The relationship between the properties of working fluids, operation conditions, performance and relevant phase transition, heat and mass transfer, flow field, system control, isentropic efficiency, and thermodynamic entropy and exergy analysis of the systems falls within the scope of this Special Issue.

- entropy
- energy
- physics
- thermodynamics
- heat and mass transfer
- heat exchangers
- control science and engineering
- proton exchange membrane fuel cell (PEMFC)
- ejector refrigeration system (ERS)
- multi-effect desalination with thermal vapor compression (MED-TVC)





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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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