

Special Issue

Sustainable Research of Power Cycles for Energy Conversion

Message from the Guest Editors

Energy and environmental issues have always been one of the main challenges facing the development of all countries across the world. These problems can be solved by increasing the share of renewable energy and improving the current energy conversion process. The reasonable utilization of renewable energy, such as geothermal energy, solar energy, and various waste heat resources, is an effective approach for improving process efficiency and reducing fuel consumption. In this regard, many technologies were proposed to convert low- and medium-grade heat sources into electrical energy, such as the organic Rankine cycle, supercritical carbon dioxide power cycle, Kalina cycle, organic flash cycle, absorption power cycle, etc. Most of the literature analyzes indicators such as power cycle technology's power generation cost and product unit total cost from an economic perspective. A few papers evaluated the emission reduction potential of the power cycle from the perspective of carbon emissions. This Special Issue, entitled 'Sustainable Research of Power Cycles for Energy Conversion', can provide new ideas for system design.

Guest Editors

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Editor-in-Chief

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