



Energy Conversion Performance for Sustainable Development

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Message from the Guest Editors

Energy usage and fresh water availability are two global concerns associated with climate change. In fact, two of the United Nations Sustainable Development Goals (SDGs) are dedicated to them: Goal 6 (Clean water and sanitation) and Goal 7 (Affordable and clean energy). In the field of energy conversion, these two concerns are related because water is working fluid in the main thermodynamic cycles used for energy generation and consumption. For this reason, any enhancement in energy conversion performance contributes to solve both concerns.

As it is known, energy conversion efficiency has theoretical limits that depend on the process involved in the conversion. However, there are many processes where technology can be improved. These improvements can provide higher efficiency, less cost, less materials use, or devices that are more robust. In summary, these innovations enhance the performance of an energy conversion process. Through these enhancements, the scientific community can contribute to UN Sustainable Development Goal 7. The purpose of this issue is to contribute to this aim by publishing research or review papers on the topics.





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