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Thermal Analysis and Thermodynamic Analysis for Advanced New Energy Systems

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Message from the Guest Editors

This Special Issue aims to provide a platform for researchers to discuss the relevant issues in thermal analysis and thermodynamic analysis for advanced new energy systems, allowing them to present the latest achievements in new energy utilization technologies as well as to propose corresponding solutions to key technical challenges of new energy systems. This Special Issue encourages original research works and literature review articles on thermal analysis and thermodynamic analysis for advanced new energy systems, with topics including but not limited to the following:

1. Designs and thermodynamic analyses of novel new energy systems, including solar energy systems, wind power systems, biomass energy systems, geothermal energy systems, nuclear energy systems, multi energy hybrid systems, etc.;
2. Thermal economic analyses of new energy systems;
3. Thermodynamic analyses in new energy-based hydrogen production or desalination;
4. Flow and heat transfer analyses in new energy systems;
5. Energy storage issues in new energy utilization;
6. Other thermal analysis and thermodynamic analysis issues in new energy utilization.

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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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