

Special Issue

Advanced Processes for Sustainable Energy Conversion and Utilization

Message from the Guest Editor

Sustainable tools for energy conversion are becoming increasingly important across various energy sub-fields worldwide. In particular, the processes involved in solar photovoltaic systems; concentrated solar systems; wind turbines and their alternators; harvesting devices working under mechanical, electromagnetic, thermal, and optical stresses; and battery technologies with inverter/convertor circuitries have garnered significant interest. It is widely known that even a 1% increase in energy conversion efficiency can lead to substantial cost savings for the global energy sector. Therefore, it is imperative that we promote sustainable efforts on energy conversion mechanisms. In this context, the scope of our Special Issue includes innovative design and prototype production in materials science, as well as improvements in the efficiency of auxiliary equipment used during energy conversion processes. Additionally, contributions focused on enhancing the efficiency of chemical reactions in any fuel-cell or battery system are also welcome for submission to this Special Issue.

Guest Editor

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