

## 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

Prof. Dr. Erol Kurt

Department of Electrical and Electronic Engineering, Gazi University,  
Ankara 06560, Turkey

### Deadline for manuscript submissions

30 September 2026



## Processes

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto:processes@mdpi.com)

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### Message from the Editor-in-Chief

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### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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