

Special Issue

Innovative Processes and Technologies for Energy Applications Towards Sustainability

Message from the Guest Editor

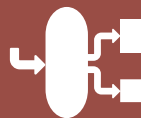
The urgent need for sustainable, efficient, clean energy solutions has spurred significant energy advancements in energy processes and technologies. This Special Issue addresses the growing global demand for innovation in energy applications across societal, industrial, and commercial contexts. By highlighting novel processes and technological breakthroughs, this collection seeks to showcase transformative experiences and lessons that can shape the future of energy management and production. One of the critical themes in this Special Issue is the role of energy communities—collaborative networks that focus on renewable energy generation, local energy independence, and participatory management. In addition, the energy sector faces pressing challenges in integrating sustainable energy sources into existing systems, requiring robust energy transition strategies. This Special Issue invites contributions that explore trends across the energy value chain, including decarbonization, waste-to-energy solutions, digitalization, and renewable energy integration.

Guest Editor

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