

## Special Issue

# Advances in Clean Energy Minerals for Low-Carbon Coal Utilization, Recycling, and Advanced Energy Conversion

### Message from the Guest Editors

This Special Issue aims to explore cutting-edge research at the intersection of coal, clean energy minerals, and sustainable energy systems, as well as advancements in carbon emission reduction and utilization, including novel technologies for mitigating coal-related greenhouse gas emissions and enhancing resource efficiency. Emphasis will also be placed on circular economy strategies, particularly recycling material and energy streams from mining and industrial processes. Topics of interest include, but are not limited to, the following:

- Low-carbon coal utilization technologies (clean combustion, gasification, and liquefaction);
- Carbon capture, utilization, and storage (CCUS) in coal-based systems;
- Coal-to-value processes and carbon conversion pathways;
- Spontaneous combustion prevention and coal oxidation control;
- Clean energy minerals for sustainable energy systems;
- Critical minerals for batteries, fuel cells, and capacitors;
- Advanced energy storage technologies (Li-ion, solid-state, and flow batteries);
- Fuel cells and hydrogen energy systems;
- Capacitors and supercapacitors for energy storage;
- Micro- and nano-scale energy conversion systems;
- ...

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### Guest Editors

Dr. Moshood Onifade  
Dr. Samson Bada  
Dr. Mutiu Kolade Amosa

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### Deadline for manuscript submissions

15 October 2026



## Energies

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## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

Prof. Dr. Enrico Sciubba  
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