



## Research on Advanced Energy Materials for Meeting Global Energy Challenges

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Deadline for manuscript  
submissions:

**closed (15 September 2025)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to present research data, reviewing material and case scenarios of planned or conducted implementation processes related to the usage of modern materials towards reducing the world's biggest energy problem. Potential topics for publication in that issue include, but are not limited to, the following:

- carbon-based materials for energy storage;
- hydrogen storage perspective;
- composites as energy materials;
- energy magazines;
- equipment and technologies towards the implementation of proctological energy production and consumption;
- ways of overcoming energetic exclusion;
- reduction in energy loss during transmission;
- materials used for batteries and capacitors;
- superconductivity phenomenon;
- renewable energy;
- performance analysis;
- technologies for reducing CO<sub>2</sub> emissions;
- chains of the sustainable production and consumption of energy;
- industrial scale-up of green energy approaches.





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## Message from the Editor-in-Chief

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