

IEEE-International Conference on Advanced Materials for Sustainable Clean Energy and Healthcare Technologies 2026 (AMSCEHT-2026)
(Conference with IEEE Record Number #69651)
11-13 September 2026
(Hybrid Mode)

Special Session on
Special Session 05: Next-Generation Materials and Technologies for Sustainable Renewable Energy Systems
Organized & Co-Chaired by:



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CALL FOR PAPERS

We invite researchers, academicians, and industry professionals to submit original contributions to this special session focused on emerging materials and advanced technologies driving the future of sustainable renewable energy systems. The session aims to highlight breakthroughs in material science, device engineering, storage solutions, and system-level innovations that can enhance efficiency, durability, and environmental performance.

TOPICS OF INTEREST, BUT NOT LIMITED TO:

This special session invites original research papers, case studies, and review articles on, but not limited to, the following topics:

1. **Advanced materials for solar, wind, hydrogen, and bioenergy systems** – Exploring innovative materials that improve the performance and efficiency of various renewable energy technologies.
2. **Nanomaterials and novel composites for energy harvesting and storage** – Using nanoscale structures and hybrid composites to enhance energy capture, conversion, and storage.
3. **High-performance batteries, fuel cells, and supercapacitors** – Developing next-generation electrochemical energy storage devices with higher efficiency, capacity, and lifespan.
4. **Smart materials for adaptive and self-healing energy components** – Materials that respond to environmental changes or repair themselves to ensure long-term system reliability.
5. **Material life-cycle assessment and sustainability metrics** – Evaluating environmental impacts of materials from production to disposal to promote sustainable energy solutions.

IMPORTANT DATES:

Paper submission opens: November 1, 2025

Paper submission closes: June 10, 2026

Paper acceptance notification: July 10, 2026

Registration deadline: July 20, 2026

Last Date of Camera-ready paper submission: August 10, 2026

Conference Date: 11-13 September 2026

(Note: Authors can register only after their papers have been accepted)

The detailed information can be found here:

Conference URL: <https://amsceht2026.opju.ac.in/>

Paper Submission Link: <https://cmt3.research.microsoft.com/AMSCEHT2026>

(Please Submit Under **Special Session 05: Next-Generation Materials and Technologies for Sustainable Renewable Energy Systems**)

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