



**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 08: Advanced Functional Materials and Integrated Technologies for Biosensors and Biomedical Devices**  
*Organized & Co-Chaired by:*



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**CALL FOR PAPERS**

This special session focuses on recent advances in functional materials and integrated technologies for biosensors and biomedical devices. With the growing demand for personalized medicine, wearable healthcare, and point-of-care diagnostics, innovative material systems are essential to improve sensitivity, selectivity, stability, and biocompatibility of biomedical devices.

**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: Functional nanomaterials for biosensing. Smart and stimuli-responsive biomaterials. Flexible and wearable biomedical devices Implantable device materials.

- Microfluidic and lab-on-chip platforms
- Hybrid organic–inorganic material systems
- Biocompatible and biodegradable electronics
- AI-integrated sensing platforms
- 3D printed biomedical devices

**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 08: Advanced Functional Materials and Integrated Technologies for Biosensors and Biomedical Devices**)

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