



28th - 31st July 2026

Borneo Convention Centre Kuching,
Sarawak, Malaysia

S01 ADVANCED FUNCTIONAL POLYMER MATERIALS AND SUSTAINABLE APPLICATIONS

Focus

Advancing sustainable functional polymers through green processing and renewable resource integration.

Scope

Covers natural rubber, hydrogels, membranes, and hybrids for biomedical and industrial use.

Approach

Bridges academia and industry to explore structure-performance relationships and innovative fabrication.

Goal

To drive cross-disciplinary collaboration and translate research into practical, eco-friendly solutions.

Symposium Chair

Assoc Prof Dr Siti Fairus Mohd Yusoff, Malaysia



Submit your Abstracts Today!



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macro2026.org/symposium



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ABOUT SYMPOSIUM

The rapid advancement of functional polymer materials has created new opportunities to address sustainability, resource efficiency, and environmental protection. This symposium focuses on advanced functional polymer systems emphasizing sustainable design, green processing, and application-driven performance. Particular attention is given to polymeric materials from renewable resources, natural rubber modification, hydrogel systems, functional membranes, and hybrid polymer composites for environmental, biomedical, and industrial uses.



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The session will present original data and emerging concepts from field experts, highlighting structure–property–performance relationships and innovative fabrication strategies that enhance functionality while reducing environmental impact. By integrating perspectives from academia and industry, the symposium aims to stimulate critical discussion, encourage cross-disciplinary collaboration, and support translation of advanced polymer research into practical solutions.

The objectives are to showcase recent breakthroughs in sustainable functional polymer materials, discuss key challenges and future directions in polymer design and applications, and provide participants with scientific insight, professional networking, and inspiration to advance.