



S04 ADVANCED POLYMERIC AND FUNCTIONAL MATERIALS: EXPANDING FRONTIERS IN HEALTH, ENVIRONMENTAL AND STEM EDUCATION APPLICATIONS

Specialized Polymers

Including membranes for filtration, hydrogels for medical use, and sorbents for capturing pollutants.

Sustainability

A focus on bio-based polymers and systems that manage resources more efficiently.

Education

The creation of interactive STEM tools to help the next generation learn science through hands-on materials.

Symposium Chair

Prof Dr Rizafizah Othaman, Malaysia



Scan Here for more information



macro2026.org/symposium



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ABOUT SYMPOSIUM

Recent advances in chemistry, polymer science, and materials science have driven the development of advanced functional materials that address global challenges in health, environmental sustainability, and STEM education.

This symposium will highlight emerging research on the design, synthesis, characterization, and application of innovative chemical and polymer-based materials, including membranes, hydrogels, sorbents, bio-based polymers, and multifunctional material systems. Emphasis will be placed on original data and novel chemical concepts that demonstrate how advanced materials contribute to biomedical technologies, environmental remediation, sustainable resource management, and interactive STEM learning tools.



ABOUT SYMPOSIUM

The symposium aims to provide an inclusive and multidisciplinary platform for researchers in chemistry and related fields to exchange scientific knowledge, discuss new methodologies, and explore collaborative opportunities across fundamental and applied research areas.

The session will promote broad scientific discussion and synthesis of ideas by bringing together experts presenting cutting-edge findings and innovative chemical approaches. Participants will benefit from gaining insights into emerging research trends, interdisciplinary networking opportunities, and practical strategies for translating chemical innovations into real-world applications supporting sustainable and knowledge-driven societal development.