Saitama University 埼玉大学

TAIWAN TECH
NATIONAL TAIWAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

特別講演会

Supramolecular Polymers: Bridging Self-Assembly and Functional Materials

Professor Chih-Chia Cheng

Graduate Institute of Applied Science and Technology, National Taiwan University of Science and Technology, Taiwan

1月13日(火曜) 16:00-17:00

工学部講義棟 51番講義室

Supramolecular polymers enable a swift response to environmental changes, resulting in easily controllable noncovalent interactions within the polymer. Consequently, the formation of polymers or polymer networks through noncovalent interactions is an appealing method for creating stimuli-responsive soft materials. Recently, the scientific community has shown significant interest in supramolecular polymers due to their diverse applications in fields such as self-healing membranes, nanocomposites, organic devices, and tissue engineering. This presentation aims to provide an overview of our ongoing research in the development and physical characterization of supramolecular polymers. In addition, we will showcase examples of supramolecular polymers, highlighting their varying applications and discussing recent advancements in combining multiple hydrogen bonding-based molecular recognition with polymer science.

Applied Chemistry
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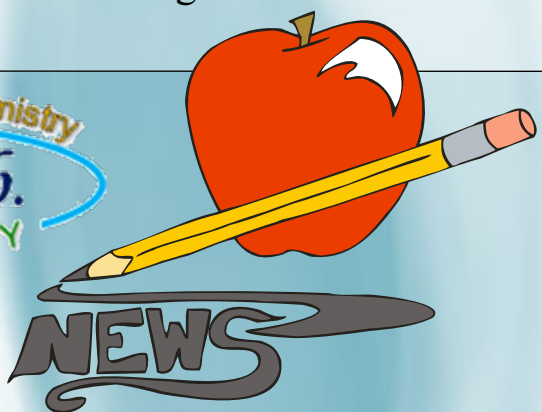
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