

第119回触媒化学融合研究センター講演会

産総研触媒化学融合研究センターでは、様々な分野で活躍している大学、公的研究機関、企業等の方々をお招きして、講演会を開催することで分野の垣根を越えた連携の実現を目指しています。

多くの方々のご参加をお待ちしております。

日時: 2025年3月24日(月) 15:00 ~ 17:00

場所: 産総研つくば中央5群 第4会議室(6603室)

講演概要:

Prof. Dr. Stefan Mecking

(University of Konstanz)



MOLECULAR AND SUPRAMOLECULAR MECHANISMS OF FUNCTIONAL GROUP TOLERANT AND AQUEOUS POLYMERIZATION CATALYSIS

Traditional olefin polymerization catalysts are very sensitive to any polar compounds. Their scope is limited to hydrocarbons as substrates and reaction media. This limitation can be overcome by functional group tolerant late transition metal catalysts. These enable the use of alternative feedstocks as well as unconventional reaction media. A mechanistic understanding is key to rationalize these processes. This applies to the molecular level, that is catalysis pathways of chain growth or monomer synthesis, as well as the supramolecular level, that is particle formation mechanisms. The resulting polymers and nanoparticles allow for chemical recycling, novel processing concepts, and most recently biodegradation modelling of micro- and nanoplastics.

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