Assistant Professor. Li-Yang Liu

Chalmers University of Technology, Sweden

Dr. Liyang Liu is an Assistant Professor in the Forest Products and Chemical Engineering units at Chalmers University of Technology, Sweden. He received his bachelor's degree (Materials Chemistry) from Northeast Forestry University and his master's degree (Biochemical Engineering) from Dalian University of Technology, China. He earned his PhD in wood science from the University of British Columbia, Canada, under the supervision of Prof. Scott Renneckar, and subsequently carried out postdoctoral research at Stockholm University with Associate Prof. Mika Sipponen.

He is now leading a research group working in lignin science and technology. The group aims to understand the reactions and structures of lignin and wood, and to convert these biomacromolecules into advanced materials through greener and efficient approaches. Central to this work is the establishment of structure–property relationships based on fundamental principles of polymer science. His group develops innovative materials, advances characterization and processing methods, and trains researchers at different career stages, contributing to long-term sustainability goals.

Dr. Liu has published over 40 peer-reviewed journal articles (h-index 24, ~1,550 citations) in journals such as Chemical Engineering Journal, Green Chemistry, ChemSusChem, ACS Sustainable Chemistry & Engineering, and Biomacromolecules. He serves as a Young Editor for Collagen and Leather and is affiliated with the Wallenberg Wood Science Center, Treesearch, the American Chemical Society, and the Swedish Chemical Society.