KEMIJSKI INŠTITUT

Vabilo na Forum40 / Invitation to the Forum40

Dr. Brigita Hočevar

D13, Department of Catalysis and Chemical Reaction Engineering

Četrtek / Thursday, 11.3.2021 ob / at 13:00 / on WEBEX

https://ki-si.webex.com/ki-si/j.php?MTID=m84372d32014ed9e511f6c968e31cd646
Meeting number (access code): 181 242 8018
Meeting password: GRbpNKJa337

Biorefinery concept: waste biomass fractionation to biobased platform chemicals and their selective (de)functionalization

Waste lignocellulosic (LC) biomass is considered to be a sustainable and low-cost alternative substitute for crude oil. An advanced biorefinery concept with different approaches of biomass fractionation into its main biopolymers and further combined chemocatalytic upgrading of each obtained polymer unit (cellulose, hemicellulose, and lignin) to the final platform and added value chemicals is applied at laboratory scale. Moreover, a case study of a new, green, efficient and sustainable process for the production of bio-based adipic acid and its esters will be discussed. The process was developed at D13 at the lab scale and is to be further developed for higher TRL.

Vljudno vabljeni / Kindly invited