



Symposium on Renewable Resources and C1 catalysis

5th of December, 2024

Program

Session 1. Chair - Prof. Yuehui Li

Speaker	Title	Time
Prof. Nengling Tai	Opening remarks	9:00 – 9:05
Prof. J. G. de Vries	Aromatics from renewable resources. Lignin vs Sugars	9:05 – 9:45
Prof. Mingdong Zhou	C-H / C-F Bond Activation: Synthesis of Functionalized Arenes	9:45 – 10:25

Session 2. Chair - Prof. Nicolas Alonso-Vante

Speaker	Title	Time
Prof. Esteban Mejia	Copper-catalyzed cross-dehydrogenative coupler reactions	10:40 – 11:20
Dr. Lijuan Zhang	CO ₂ Cryo-Capture Technology and Direct Electrochemical Reduction of Amine-CO ₂ Solution	11:20 – 11:50
Prof. Mao Peng	The rational design of Pd-based catalyst for formic acid oxidation	11:50 – 12:30

Session 3. Chair - Prof. Esteban Mejia

Speaker	Title	Time
Prof. Nicolas Alonso-Vante	The adsorption and charge donation trade-off for improved electrocatalysis	14:00 – 14:40
Prof. Sergey Tin	Formylation of secondary amines with renewables and catalytic deoxydehydration of vicinal diols	14:40 – 15:20
Prof. Shenggang Li	Theory-guided Design of Heterogeneous Oxide-based Catalysts for CO ₂ Valorization	15:20 – 16:00

Session 4. Chair - Prof. Johannes Gerardus de Vries

Speaker	Title	Time
Dr. Xiaofan Zheng	Machine learning empowering heterogeneous catalytic reactions: A microscopic perspective	16:15 – 16:45
Dr. Saša Opačak	Backdoor induction of chirality and its application to hydrogenation and hydroformylation reactions utilising naturally available amino acid building blocks	16:45 – 17:15
Prof. J. G. de Vries	Closing remarks	17:15 – 17:20

Students and faculty are sincerely invited to attend!