



## **Vortragsankündigung**

**Mittwoch, 28. Jänner 2026, 11.15 Uhr im SR I**

**Assoc. Prof. Mag. Dr. Stefan SPIRK**

Graz University of Technology

### **“Insights into the development of organic flow batteries”**

Vanillin is one of the few bulk products produced at scale from lignin, making it a potential source for large scale applications. In recent years, we have been successful to manufacture vanillin based redox active molecules which can be used in redox flow batteries as active materials. Here, I show an overview of the results obtained during the past 5 years, including the scale up of quinone synthesis and the operation of larger redox flow batteries. In the end of my talk, I will present some results on ion conductive membranes based on paper having the potential to outcompete current PFAS type solutions.