

## **Séminaire**

## **Mercredi** 05 juin 2023 à 10h30 Amphithéâtre Henri Benoît

## **Yinyin BAO**

Department of Chemistry and Applied Biosciences ETH Zurich, Switzerland

## Fluorescent Materials via Polymerization-Mediated Charge Transfer

Emission tuning of fluorescent materials is essential for both fundamental study and practical applications. Recently, through-space charge transfer has emerged as an efficient tool for manipulating fluorescence properties of small molecules, and also polymers. This presentation will focus on the non-conventional design of through-space charge transfer polymers, that is inspired by an unexpected side reaction of a free radical polymerization. Furthermore, by incorporating machine learning prediction tools, it was demonstrated that polymerization-mediated charge transfer enables full-color emission tuning in the solid state, and facilitates photoresponsive films with high contrast ratiometric fluorescence as well as other solid-state applications. These findings could have potential in encryption, sensing, biomedicine, and optoelectronics.

Les personnes souhaitant rencontrer Yinyin BAO sont priées de prendre contact avec Daniel GRANDE.







