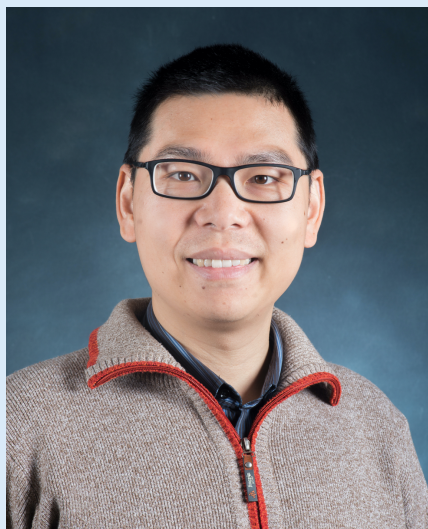


# JEFFREY I. ZINK INORGANIC CHEMISTRY SEMINAR



## Prof. Jia Niu

Department of Chemistry, Boston College

### “Sustainability-Oriented Approaches to Precision Macromolecules”

**Abstract:** Macromolecules are ubiquitous in life and in human society. A long-term goal of our research group is to develop novel synthetic macromolecules that are degradable, derived from sustainable resources, possess a circular life cycle, or can serve as functional probes in biological investigations. In this seminar, I will discuss our recent progress in homogeneous and heterogeneous catalytic strategies that enable precise control over the architecture, stereochemistry, and chain ends of synthetic macromolecules. Examples of these sustainable polymers include synthetic polysaccharides and chemically depolymerizable main chain polymers. Taken together, we hope these efforts will enable the synthesis and applications of novel macromolecules with tailor-made properties for a sustainable future.

#### Meet the Speaker

11:00 a.m. | YH 3096

Wednesday, March 8<sup>th</sup>, 2023

**UCLA** College | Physical Sciences  
**Chemistry & Biochemistry**

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4:00 p.m. | YH4222 - Collaboratory  
Yoo Seminar & Conference Hall