



Join the Sustainable and Bio-inspired Materials Department of the Max Planck Institute of Colloids and Interfaces for an exciting

Master Thesis Project / Internship on Chitosan Nanocrystal Self-Assembly!

Deadline: March 1

Project Description: Chitin, an abundant and eco-friendly polymer from crustacean shells and fungi, is typically converted into chitosan or chitin nanocrystals (ChNCs). Recently, we have achieved in producing chitosan nanocrystals (ChsNCs) that outperform ChNCs and cellulose nanocrystals in catalysis and biomedicine. However, the reaction mechanisms remain poorly understood. This project explores nanoscale deacetylation through kinetic studies and controlled reactions, aiming for scalable, green production of ChsNCs. If you're interested in sustainable nanomaterials, reaction mechanisms, and green chemistry, join us for this exciting Master's thesis opportunity! If you're not seeking a master's thesis but interested in a 3+ month internship, we also welcome your application.

Discover our Research on Chitin and Chitosan Nanocrystals:



To apply, please submit your CV and a motivation statement outlining your interest in joining our team by mail to:

tony.jin@mpikg.mpg.de

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