

# Structure-Property Relations in Soft Matter Sciences

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## Content and Goals of the Course

We will **classify soft matter** with focus on **polymer** materials. Here, we will discuss the influence of the **macromolecular architecture**, the chosen **processing** route and processing conditions, on the resulting materials **properties**. In this context, we will discuss the importance of **morphology**, which is the organization of materials at any length scale. **Morphology is the central link between “structure” and “properties” of soft matter.** Our basic understanding of structure-property relations will be reinforced by introducing **examples** from various application areas, e.g. organic electronics, food and biomedical, followed by case studies and discussion.

**The student should attain**

- 1) Ability to link macromolecular architecture, processing routes and properties of soft matter;
- 2) Insights on the importance of morphology for the performance of soft matter products; and
- 3) Basic understanding on routes for tuning morphology to achieve desired properties.

## Content and Goals of the Course

Chapter	Time	Date	Contents
1	4	11.04.	Introduction to soft matter/polymers, and physical-chemical properties
2	2		

# Structure Property Relations

**Jicheng Xie**



## **Structure Property Relations:**

Discover tales of courage and bravery in its empowering ebook, **Stories of Fearlessness: Structure Property Relations** . In a downloadable PDF format (\*), this collection inspires and motivates. Download now to witness the indomitable spirit of those who dared to be brave.

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