MSE-653 CCMX Advanced Course - Inorganic Particle Synthesis by Precipitation: From Nanoparticles to Self-organised Mesocrystals and from Theory to Practice

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Cursus	Sem.	Туре	Language of	English
Materials Science and Engineering		Obl.	teaching	Linglish
			Credits	1
			Session	
			Exam	Written
			Workload	30h
			Hours	21
			Courses	19
			Exercises	2
			Number of	
			positions	

Frequency

Every year

Summary

The basics behind precipitation of particles in theory and in practice will be introduced. Fundamental concepts of supersaturation, nucleation, growth and aggregation will be discussed. Some basic methods used for inorganic powder and particles characterisation will also be briefly introduced.

Content

Please find information on the link below.

Note

This course is open to participants with a basic background in materials science, chemistry and physics. It is mandatory to register on the CCMX website for this course.

Keywords

precipitation; inorganic powders; supersaturation; nucleation mechanism; growth mechanism; aggregation mechanism; characterisation; reactors; sol-gel routes; aqueous; non-aqueous; thermodynamic modelling, kinetic modelling

Resources

Websites

• https://ccmx.epfl.ch/past-courses-and-events/inorganic-particle-synthesis-by-precipitation/