

MSE-653

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

Bowen Paul, Hofmann Heinrich, Niederberger Markus, Testino Andrea

Cursus	Sem.	Type
Materials Science and Engineering		Obl.

Language of teaching	English
Credits	1
Session	
Exam	Written
Workload	30h
Hours	21
Courses	19
Exercises	2
Number of positions	

Frequency

Every year

Remark

Next time 19 - 21 March, 2018

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 the information on the following link :

<http://www.ccmx.ch/courses-and-events/article/2016/05/ccmx-advanced-course-inorganic-particle-synthesis-by-precipitation/>

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

- <http://www.ccmx.ch/news-amp-events/news-single/article/276/61/>