CH-711

Inorganic chemistry "Applications and spin-offs"

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Cursus	Sem.	Type
Chemistry and Chemical Engineering		Opt.

Language of teaching	English
Credits	2
Session	
Exam	Oral presentation
Workload	60h
Hours	**30**
Courses	15
Exercises	15
Number of positions	**14**

Frequency

Every 3 years

Remark

Next time: Fall semester 2023

Summary

Present and discuss important recent contributions in the field of inorganic chemistry. This will be achieved by student literature seminars based on selected publications,emanating from the last 12 months. Seminar preceded by an introduction to the topic and followed by a group discussion.

Content

The topics covered in this course will include recent advances in the field of bioinorganic chemistry (e.g. structure and reaction mechanism of metalloenzymes, synthesis of bioinorganic model compounds), organometallic synthesis and catalysis (e.g. new concepts in combinatorial catalysis, new synthetic methodologies, new spectroscopic techniques) and supramolecular coordination chemistry (e.g. new functional materials by self-assembly, the adaptive behavior of dynamic systems). The specific content will be chosen by the instructors and will be renewed every year.

Keywords

Inorganic, Organometallic, Materials, Catalysis, Spectroscopy, Theory.

Learning Prerequisites

Important concepts to start the course

Masters level knowledge of inorganic/organometallic chemistry.