Module description

Module title					Abbreviation
Chemically and biologically inspired Nanotechnology for Materials Synthesis					08-NT-091-m01
Module	coord	inator		Module offered by	
holder of the Chair of Chemical Technology of Material Syn- thesis					
ECTS Method of grading		Only after succ. compl. of module(s)			
5 numerical grade		rical grade			
Duration		Module level	Other prerequisites		
1 semester		undergraduate			
Contents					
This module provides an introduction to the synthesis methods of sol-gel chemistry and discusses the methods of analysis used to characterise the generated materials. It also discusses the fundamental principles of biomineralisation and uses examples to introduce students to bio-inspired material synthesis.					
Intended learning outcomes					
Students have developed an advanced knowledge of sol-gel chemistry and biomineralisation.					
Courses (type, number of weekly contact hours, language — if other than German)					
 This module comprises 2 module components. Information on courses will be listed separately for each module component. 08-NT-1-091: V (no information on SWS (weekly contact hours) and course language available) 08-NT-2-091: V (no information on SWS (weekly contact hours) and course language available) 					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
Assessment in this module comprises the assessments in the individual module components as specified be- low. Unless stated otherwise, successful completion of the module will require successful completion of all indi- vidual assessments.					
 Assessment in module component o8-NT-1-091: Chemically and biologically inspired Nanotechnology for Materials Synthesis 2 ECTS, Method of grading: numerical grade oral examination (approx. 15 minutes) Assessment in module component o8-NT-2-091: From Biomineralisation to biologically inspired Materials Synthesis 3 ECTS, Method of grading: numerical grade oral examination (approx. 20 minutes) 					
Allocation of places					
Additional information					
Workload					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Bachelor's degree (1 major) Technology of Functional Materials (2009)					
Bachelor's degree (1 major) Technology of Functional Materials (2006)					

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