







transition metal templates

Around Bonn

The city of Bonn with a population of nearly 315,000 is not only an exciting metropolitan area and a center of several leading corporate players, but also heads United Nations institutions.

Founded in 1818, the Rheinische Friedrich-Wilhelms-University of Bonn is one of the largest universities in Germany with more than 27,000 students. The university is highly innovative on an international level without negating its traditional roots.

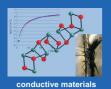


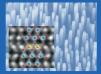
Chemistry in Bonn

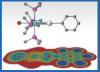
Since the foundation of the University, chemistry has played a significant role. Its history is intimately tied to famous researchers such as August Kekulé and Rudolf Clausius.

Today the department of chemistry hosts 20 different research groups working in all branches of modern chemistry.









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Research

The chemistry department consists of the Institute of Inorganic Chemistry, the Kekulé Institute of Organic Chemistry and Biochemistry, and the Institute of Physical and Theoretical Chemistry. The research environment is highly interdisciplinary. Intense collaborations are pursued among the groups, as evidenced by the collaborative research center SFB 624

Post doctoral positions are offered for those, who wish to start a career in academia or industry.

"Templates - From the Design of Chemical

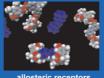
Templates to Reaction Control".

Research Topics

Inorganic Chemistry

Catalysis and Quantum Chemistry
Coordination Chemistry
Electron Microscopy
Main-Group Element Chemistry
Nano Materials
Organometallic Chemistry
Solid-State Chemistry
Transition-Metal Chemistry







MS of complex systems

Research Topics

Organic Chemistry and Biochemistry

Biochemistry and Natural Products
Catalysis and Sustainable Chemistry
New Methodologies in Synthesis
Organoelectrochemistry
Organometallics in Synthesis
Organic Materials
Polymer Chemistry
Supramolecular Chemistry and Sensors

Physical Chemistry and Theoretical Chemistry

Electrocatalysis
Development of *ab initio* Methods
Femtochemistry
Nanostructuring and Analysis of Surfaces
Organic Semiconductors
Quantum-chemical Modelling of Solids and
Surfaces
Single Molecule Spectroscopy
Theoretical Transition Metal Chemistry







rational catalyst design

molecular templates

Study Programs

Bachelor's Degree in Chemistry

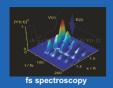
The department of chemistry offers a three-year study program leading to a Bachelor of Science degree (B.Sc.) in chemistry. The subjects covered span the entire range of modern chemistry including inorganic, analytical, organic, physical and theoretical chemistry. The degree concluded with a scientific thesis, to be completed within three months. All courses are presented in German.

Master's Degree in Chemistry

The B.Sc. may be followed by a two-year Master of Science program. The first semester is devoted to advanced subjects. The following two semesters are reserved for specialized courses that can be chosen from the areas of "catalysis", "molecules and mechanisms", "materials" and "biological chemistry". The M.Sc. program concludes with a Master of Science thesis, to be completed within six months. The courses are presented in German and English.

Ph.D. Program

Presently more than 150 students are working towards completion of their Ph.D. theses in the various research groups of the department. These are usually finished within a three year period, and may be written in English. Applicants holding a Master's degree in chemistry are encouraged to apply for a Ph.D. position in Bonn.







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Institute of Inorganic Chemistry and Kekulé Institute of Organic Chemistry and Biochemistry

Institute of Physical and Theoretical Chemistry

