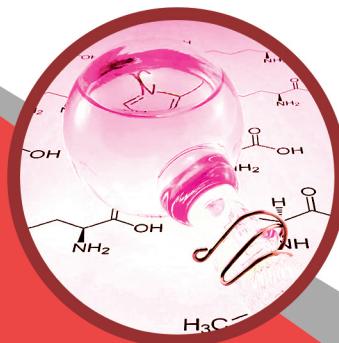


# Graduate Studies

The Department of Chemistry offers the following course- and research-oriented postgraduate degree programmes:

- MSc in Analytical Chemistry, Inorganic Chemistry, Nano Chemistry, Organic Chemistry, Physical Chemistry, and Polymer Chemistry.
- PhD in Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, and Polymer chemistry.
- Seamless Direct MSc-PhD programmes: A five-year programme. 2 years on passing courses and 3 years on carrying out researches.



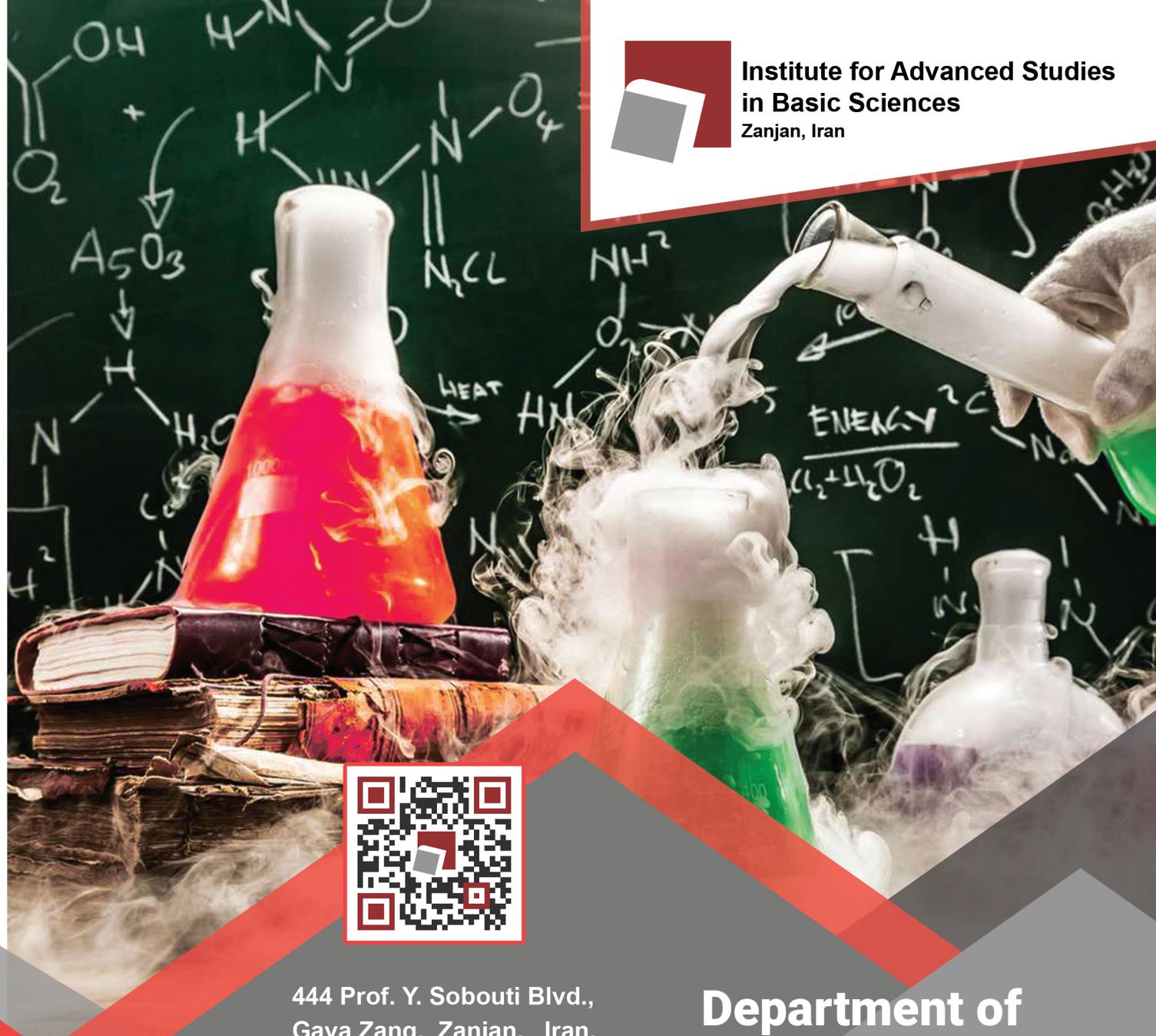
## Department Facts

Since 1999

20 Faculty

1048 Alumni

172 Students



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 Institute for Advanced Studies  
in Basic Sciences  
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**Department of  
Chemistry**  
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# Departmental Overview

The Department of Chemistry at the IASBS is dedicated to research and education at the postgraduate level. We offer PhD and MSc programmes in various fields of chemistry. The Chemistry Department has strong international ties and has signed various academic agreements to facilitate visits and mutual collaborations for students and faculty members. We are currently conducting research in many exciting areas, including the development of new materials as efficient catalysts, tissue engineering, drug delivery, anode/cathode in metal-ion batteries, supramolecular chemistry, catalytic CO<sub>2</sub> conversion, separation and purification, theoretical chemistry, data science, data mining methods and machine learning.

## Areas of Study

- Water Oxidation and Artificial Photosynthesis
- Antibacterial Wound Dressing
- Electrical Energy Storage and Electrochemical Capacitors
- Quantum and Molecular Dynamics Simulation
- Chemometrics and Machine Learning
- Semiconductor Photo-Electrochemistry
- CO<sub>2</sub> Conversion
- Water Treatment
- Nano-Electro-Chemistry
- Metal-Organic Frameworks

### Head of the Department:

**Dr. Habib Kazemi**

[chem.info@iasbs.ac.ir](mailto:chem.info@iasbs.ac.ir)

www.iasbs.ac.ir/departments/chemistry/



## Research Facilities

The Department has several instrumental, analytical, and computational facilities in the service of its teaching and research programmes. Our main laboratories include:

- CHNS
- GC and HPLC
- Various Spectrophotometers
- TGA
- NMR
- Porosimetry
- Computer Clusters

Further analytical facilities housed in other departments of the Institute are also available to the faculty and students.

We also have a range of general facilities to support student activities, such as personal office space, computer lab, and conference rooms.

We provide all necessary chemical materials and experimental facilities for students in other departments.

