

### » Because of our outstanding Chemistry and Materials Science research programs!

We are doing cutting edge research in Chemistry and Materials Science. In the Thompson Reuters' Essential Science Indicators, which are an internationally recognized set of science rankings, for 2010, Tohoku University Chemistry and Materials Science were listed in the top 20 and top 10, respectively.

Chemistry World **20<sup>th</sup>** (National **4<sup>th</sup>**)

Materials Science World **3<sup>rd</sup>** (National **1<sup>st</sup>**)

ESI Thomson Reuters ISI, 2010 <http://esi.isiknowledge.com>

## TOHOKU UNIVERSITY

Advanced Molecular Chemistry (AMC) Course

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#### [AMC Course]

[www.sci.tohoku.ac.jp/amc](http://www.sci.tohoku.ac.jp/amc)

#### [Global 30 Program]

[www.fgl.tohoku.ac.jp](http://www.fgl.tohoku.ac.jp)

#### [Tohoku University]

[www.tohoku.ac.jp](http://www.tohoku.ac.jp)



### Examples of Scientific Contributions of our Faculty Members

Observation and electric current control of a local spin in a single-molecule magnet.

*Nat. Commun.* 2, 217 (2011)

Mimicking multipass transmembrane proteins: synthesis, assembly and folding of alternating amphiphilic multiblock molecules in liposomal membranes.

*Chem. Commun.* 47, 194 (2011)

Time-resolved small-angle X-ray scattering study of the folding dynamics of Barnase.

*J. Mol. Biol.* 405, 1284 (2011)

Supramolecular photochirogenesis with biomolecules. Mechanistic studies on the enantiodifferentiation for the photocyclodimerization of 2-anthracenecarboxylate mediated by bovine serum albumin.

*J. Org. Chem.* 72, 2707 (2007)

DNA templated click chemistry for creation of novel DNA binding molecules.

*Bioorg. Med. Chem. Lett.* 18, 5660 (2008)

Influence of crystalline defects in Czochralski-grown Si multicrystal on minority carrier lifetime.

*J. Cryst. Growth* 306, 452 (2007)

Global 30 Program  
Future Global Leadership

Tohoku University  
Faculty of Science



» Why choose Tohoku University?



International Program in Chemistry

# Advanced Molecular Chemistry Course

## ■ Undergraduate Course

- ◎ Lectures in English
- ◎ Cutting-Edge Chemistry and Materials Science
- ◎ Molecular Approach to New Materials
- ◎ Support for International Students

[www.sci.tohoku.ac.jp/amc](http://www.sci.tohoku.ac.jp/amc)

