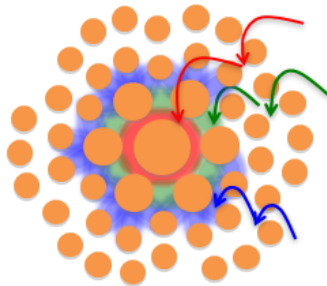


# Plasmonics-based Energy Harvesting for Catalysis (PLASMHACAT)

Grant agreement no.: 280064

01.10.2011 – 30.09.2016



*Direct, focus, and enhance incident light  
Towards/on the catalytic center*

**PI: Hiroshi Uji-i**

Research Professor (KU Leuven, Belgium)

Full professor (RIES, Hokkaido University, Japan)

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## About me

- 2002            Obtained PhD in Tohoku Univ. Japan
- 2002 - 2004    Post-doctoral fellow, Leuven university, Belgium
- 2004 – 2011    Senior post-doctoral fellow (group leader), Leuven university, Belgium
- 2009 – 2013    PRESTO / JST (さきがけ) in Leuven university Belgium
- 2011 – present   Research professor, Leuven university, Belgium
- 2015 – present   Full professor, RIES, Hokkaido University, Japan

# How to write a proposal to ERC?

- You need an appoint letter from your institute (at least 5 years contract)
- Proposal will be submitted through the host institute.
- Prepare it very in advance. It is a huge work.

(Part 1: background of PI and institute, CV, summary of project (12 pages), Part 2: project 20 page)

- Innovative, novelty, high impact **TO SOCIETY**
- Panel members and reviewers are experts in the similar field. They read the detail of your proposal.
- Once you are invited to the interview, practice many times in front of your colleagues, bosses, friends, etc.

**Selection of panel is a key!**

I failed in panel 4 (catalysis) 2009 and succeeded in panel 5 (material) 2010 with the same project.

# How to manage the project

Project is 5 years. (1.5 + 1.5 + 1.5 + 0.5 years)

Starting (and old type of consolidate) grant is ~1.5 millions Euro.

In my case,...

- 2 Phd students, and 2 posdocs (500k x4 x 5)

- 300~500 k consumable, travel, publication

- 3000k for instruments

Since July 2015, 80k was brought to Hokkaido University in order to conduct a part of the ERC project in Japan.

# If you want to apply fellowship in Europe,...

You could contact me.

I or my colleagues could host you to apply a MC project, other Belgium fellowship (FWO), etc.

Our research interests are

photo-chemistry, photo-physics, surface chemistry, plasmonics,  
photo-catalysis, fluorescence microscopy,  
biology, bioengineering

# Lab. Photochemistry and spectroscopy, KU Leuven, Belgium

<https://www.chem.kuleuven.be/mip/>

**Prof. Mark Van der Auweraer**  
Time-resolved spectroscopy

**Prof. Johan Hofkens**  
single-molecule spectroscopy

**Prof. Steven De Feyter**  
Surface chemistry

**Prof. Hiroshi Uji-i**  
Plasmonics

## *Photochemistry & Spectroscopy*

*Molecular Imaging and Photonics*

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**Van der Auweraer group**  
*Ensemble Photochemistry & Spectroscopy*



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