

# International Symposium on Gold Chemistry 2018

## 金の化学に関する国際シンポジウム 2018

主催：首都大学東京 金の化学研究センター

協賛：日本化学会，触媒学会

日時：2018年10月30-31日

場所：首都大学東京 国際交流会館会議室

(〒192-0397 東京都八王子市南大沢 1-1)

<交通>京王線「南大沢駅」から徒歩12分



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参加費：無料(但し，30日の懇親会は事前申込の上，5000円)

参加申込方法：お名前・御所属，連絡先(e-mail等)，懇親会参加の有無を明記して下記宛に申込み下さい。  
懇親会締切は10月23日，シンポジウム参加は直前まで受け付けますが，準備の都合上早めに申込下さると幸いです。

申込先/問合せ先：192-0397 東京都八王子市南大沢 1-1

首都大学東京大学院都市環境科学研究科附属 金の化学研究センター 村山 徹 ([murayama@tmu.ac.jp](mailto:murayama@tmu.ac.jp))

または，竹歳 絢子 ([taketoshi-ayako@tmu.ac.jp](mailto:taketoshi-ayako@tmu.ac.jp))

### Program

30<sup>th</sup>, October

13:30-13:40 Opening remarks, Introduction of Research Center for Gold Chemistry

13:40-14:10 Jiahui Huang,

Gold Catalyst Research Center, Dalian Institute of Chemical Physics (DICP),  
Chinese Academy of Science (China)

'Low-temperature CO oxidation over gold catalysts: Au size effect and reaction mechanism'

14:10-14:40 Grazia Malta,

Cardiff Catalysis Institute, Cardiff University (UK)

'Gold catalyst for VCM production via acetylene hydrochlorination:'

- Identification of the active site'
- 14:40–14:55 Mingyue Lin,  
Research Center for Gold Chemistry, Tokyo Metropolitan University (Japan)  
'Selective Catalytic Oxidation of Low Concentration NH<sub>3</sub> by Nanoparticulate Gold'
- 14:55–15:10 Nao Niimi,  
NBC Meshtec Inc., (Japan)  
'Gold Catalysts supported on ceramic honeycombs for air purification'
- 15:10–15:25 break
- 15:25–15:55 Junhu Wang,  
Dalian National Laboratory for Clean Energy (DNL) & Mössbauer Effect Data Center (MEDC), Dalian Institute of Chemical Physics (DICP), Chinese Academy of Sciences (China)  
'Strong metal-support interactions in gold catalysts'
- 15:55–16:10 Yusuke Inomata,  
Research Center for Gold Chemistry, Tokyo Metropolitan University (Japan)  
'Nanoparticulate gold catalysts deposited on polyoxometalate'
- 16:10–16:25 Zhu Qianqian,  
Research Center for Gold Chemistry, Tokyo Metropolitan University (Japan)  
'CO oxidation by Ceramics supported gold nanoparticulate catalyst'
- 16:25–16:40 break
- 16:40–17:10 Caixia Qi,  
Shandong Applied Research Center for Gold Nanotechnology, Yantai University (China)  
'Propylene epoxidation with H<sub>2</sub> and O<sub>2</sub> over Au supported on ZrO<sub>2</sub> with different crystal phase'
- 17:10–17:40 Richard J. Lewis,  
Cardiff Catalysis Institute, Cardiff University (UK)  
'The direct synthesis of H<sub>2</sub>O<sub>2</sub> using TS-1 supported catalysts'
- 18:00– Dinner

31<sup>st</sup> October (Wed.)

- 9:00– 9:30 Naoki Mimura,  
National Institute of Advanced Industrial Science and Technology (AIST), Japan  
'Liquid-phase flow oxidation of glycerol into carboxylic acids as functional molecules using molecular oxygen as an oxidant'
- 9:30–9:45 Ayako Taketoshi,  
Research Center for Gold Chemistry, Tokyo Metropolitan University (Japan)  
'Oxidative Esterification of Aliphatic Aldehydes or Alcohols with Ethanol Catalyzed by Gold Nanoparticles'

- 9:45–10:00 Chihiro Mochizuki,  
Research Center for Gold Chemistry, Tokyo Metropolitan University (Japan)  
‘Catalytic oxidation of furfural by nanoparticulate gold catalysts’
- 10:00–10:15 Jun-ichi Nishigaki,  
Research Center for Gold Chemistry, Tokyo Metropolitan University (Japan)  
‘Regeneration of Active Coenzymes by Gold Cluster Catalysts ~Redox Reaction  
between NADH and NAD<sup>+</sup>~’
- 10:15–10:30 break
- 10:30–11:00 Sophie Lanone,  
Institut national de la santé et de la recherche médicale (INSERM), Paris East  
Creteil University (France)  
‘Health effects of nanoparticles - where are we now?’
- 11:00–11:30 Jorge Boczkowski,  
Institut national de la sante et de la recherche medicale (INSERM), Paris East  
Creteil University (France)  
‘Biological and medical effects of gold nanoparticles’
- 11:30–12:00 Guoping Chen,  
Research Center of Functional Materials, National Institute for Materials  
Science (NIMS) (Japan)  
‘Preparation of Gold Nanoparticles with Tunable Size and Morphology for  
Biomedical Applications’
- 12:10 Closing remarks

The latest version is available on the website.

Website: <http://www.haruta-masatake.ues.tmu.ac.jp/en/index.html>

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