

## 平成22年度 研究業績

浅尾直樹 (東北大学原子分子材料科学高等研究機構、A01班 公募班員)

### 1. 発表論文等 (査読付き論文, 著書, 総説等の発表状況)

- (1) Stat3 as a Therapeutic Target for the Treatment of Psoriasis: A Chiral Feasibility Study with STA-21, a Stat3 Inhibitor  
Miyoshi, K.; Takaishi, M.; Nakajima, K.; Ikeda, M.; Kanda, T.; Tarutani, M.; Iiyama, T.; Asao, N.; DiGiovanni, J.; Sano, S.\* *J. Invest. Dermatology* **2011**, *131*, 108-117.
- (2) Nanostructured Materials as Catalysts: Nanoporous-Gold-Catalyzed Oxidation of Organosilanes with Water  
Asao, N.\*; Ishikawa, Y.; Hatakeyama, N.; Menggenbateer, Yamamoto, Y.\*; Chen, M.; Zhang, W.; Inoue, A. *Angew. Chem. Int. Ed.* **2010**, *49*, 10093-10095.
- (3) Gold-catalyzed C-S bond formation from thiols  
Jean, M.; Renault, J.; van de Weghe, P.\*; Asao, N. *Tetrahedron Lett.* **2010**, *51*, 378-381.

### 2. 学会発表等 (国内外の招待講演および国際会議での発表状況)

- (1) Nanoporous Metallic Materials as Effective Green Catalysts for Molecular Transformations  
Asao, N. The 2011 WPI-AIMR Annual Workshop, Sendai, Japan, 2011.2.21-24 (招待講演).
- (2) Oxidation of alcohols with molecular oxygen catalyzed by reusable nanoporous gold  
Asao, N.; Ishikawa, Y.; Hatakeyama, N.; Menggenbateer, Yamamoto, Y.; Chen, M.; Zhang, W.; Inoue, A. The 2010 International Chemical Congress of Pacific Basin Societies (Pacifichem 2010), Honolulu, Hawaii, USA, 2010.12.15-20 (口頭発表).
- (3) Gold-catalyzed functionalization of silyl enol ethers  
Kaneko, T.; Aikawa, H.; Asao, N. The 2010 International Chemical Congress of Pacific Basin Societies (Pacifichem 2010), Honolulu, Hawaii, USA, 2010.12.15-20 (ポスター発表).
- (4) Gold-catalyzed dehydration of alcohols  
Seya, Y.; Umetsu, K.; Asao, N. The 2010 International Chemical Congress of Pacific Basin Societies (Pacifichem 2010), Honolulu, Hawaii, USA, 2010.12.15-20 (ポスター発表).

- (5) Individual Hydrogen Desorption from Titanium Dioxide Surfaces  
Minato, T.; Pang, C.-L.; Asao, N.; Yamamoto, Y.; Kawai, M.; Kim, Y. Asian Conference on Nanoscience & Nanotechnology (AsiaNANO 2010), Tokyo, Japan, 2010.11.1-3 (ポスター発表).
- (6) Gold-catalyzed dehydration of alcohols  
Seya, Y.; Umetsu, K.; Asao, N. 24th International Conference on Organometallic Chemistry (ICOMC 2010), Taipei, Taiwan, 2010.7.18-23 (ポスター発表).
- (7) Nanoporous Gold as an Effective Heterogeneous Catalyst for Molecular Transformations  
Asao, N.; Ishikawa, Y.; Hatakeyama, N.; Menggenbateer, Yamamoto, Y.; Chen, M.; Zhang, W.; Inoue, A. WCU/AMS (POSTECH)-WPI/AIMR (TOHOKU Univ) Joint Workshop, Pohang, Korea, 2010.6.17-19 (招待講演).

### 3. 特許

特になし

### 4. 学会・シンポジウム等の開催状況

特になし

### 5. 受賞等

特になし

### 6. 新聞報道等

#### (1) **Selected by the Editorial Board of Synfacts** (*Synfacts* **2010**, 95.)

CuX<sub>2</sub>-mediated [4t2] benzannulation as a new synthetic tool for stereoselective construction of haloaromatic compounds. Isogai, Y.; Menggenbateer; Khan, F. N.; Asao, N. *Tetrahedron* **2009**, 65, 9575.

### 7. 領域内の共同研究の準備・実施状況とその成果

特になし

## 8. その他特記事項

特になし