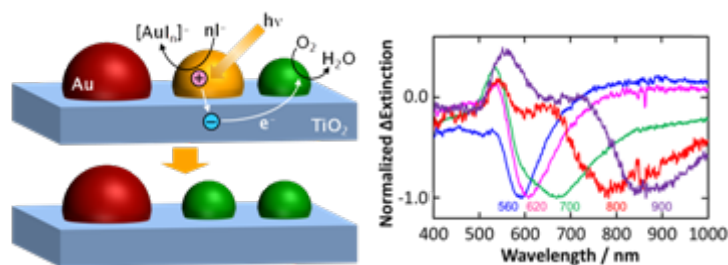


応用化学専攻 小西洋平さん、The 6th International Conference on Gold Science Technology and its Applications (Gold 2012) において Poster Award を受賞 (2012/09)

応用化学専攻 修士課程2年 小西洋平さんが、The 6th International Conference on Gold Science Technology and its Applications (Gold 2012) において Poster Award を受賞しました。



当研究室では以前、プラズモン共鳴を示す銀ナノ粒子を使ってさまざまな色を表示・書き換えできる多色フォトクロミック材料を開発しましたが、色が徐々に薄くなるという課題がありました。私はより安定な金ナノ粒子に「配位子」を組み合わせることで、銀と同様に光吸収スペクトルを制御でき、得られたスペクトルが銀の場合より安定であることを示し、この課題を解決する糸口をつかみました。



200 以上もの最先端の研究の中から選ばれたことを光栄に思います。今回の受賞は立間先生、田邊さんをはじめ、研究室の皆様あってのものです。この場を借りて御礼申し上げます。

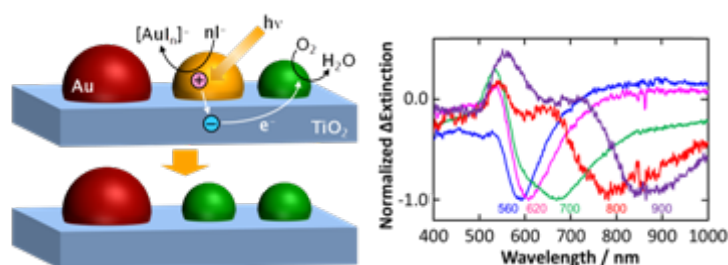
September 8, 2012

Yohei Konishi, Department of Applied Chemistry, wins Poster Award in the 6th International Conference on Gold Science Technology and its Applications (Gold 2012)

Yohei Konishi, Department of Applied Chemistry, wins Poster Award in the 6th International Conference on Gold Science Technology and its Applications (Gold 2012)



Our research group previously developed a multicolor photochromic material, which reversibly displays various colors by using plasmonic silver nanoparticles. However, the colors are gradually bleached under room light. I addressed this issue by utilizing more stable gold nanoparticles and iodide ligands. As a result, the optical spectrum is tailored by light as is the case for silver nanoparticles, and the resultant spectrum is more stable than that of silver nanoparticles.



I feel very honored to receive the award. I am grateful to Professor Tatsuma, Mr. Tanabe, and all the other group members for their support.