

化学教室

(Department of Chemistry)

教育研究原著論文

1) 印刷公表

1. Fukui T*, Masuno K, Makita Y, Fujiwara S, Shiota G*², Imamura Y*, Shiba A*³, Wang PL. Evaluation of oral mucosa irritation produced by ozone gel. *J Hard Tissue Biol* 2015 ; 24(1) : 104-106.
2. Tsuda S, Okuyama M*⁴, Fujiwara S, Iwasaki T*⁴, Kuniyasu H*⁴, Kambe N*⁴. Palladium catalyzed intramolecular vinylselenation and vinylthiolation of allenes. *Heterocycles* 2015 ; 90(2) : 1323-1331.
3. Nishiyama J*⁵, Makita Y, Kihara N*⁵. The cyclopentyl group, as a small but bulky terminal group, allows rapid and efficient active transport. *Org Lett* 2015 ; 17(1) : 138-141.
4. Shiro D*⁴, Fujiwara S, Tsuda S, Iwasaki T*⁴, Kuniyasu H*⁴, Kambe N*⁴. AlCl₃-catalyzed insertion of isocyanides into nitrogen-sulfur bonds of sulfenamides. *Tetrahedron Lett* 2015 ; 56(12) : 1531-1534.
5. Shiro D*⁴, Fujiwara S, Tsuda S, Iwasaki T*⁴, Kuniyasu H*⁴, Kambe N*⁴. Palladium-catalyzed insertion reactions of isocyanides into thiocarbamates and selenocarbamates. *Chem Lett* 2015 ; 44(4) : 465-467.
6. Nishiyama J*⁵, Makita Y, Kihara N*⁵. Rapid and efficient acylative active transport on a rotaxane. *Asian J Org Chem* 2015 ; 4(10) : 1056-1064.
7. Nishiyama J*⁵, Makita Y, Kihara N*⁵, Takata T*⁶. Acylative uni-directional transport on level periodic potential surface using a rotaxane platform with a isopropylidene separator. *Chem Lett* 2015 ; 44(10) : 1428-1430.
8. Makita Y, Imamura Y*, Masuno K, Tamura I, Fujiwara S, Shiota G*², Shiba A*³, Wang PL. The effect of ozone on collagen type-1 and inflammatory cytokine production in human gingival fibroblasts. *Dentistry* 2015 ; 10(5) : 339-342.

2) 学会発表

1. Shiro D*⁴, Fujiwara S, Tsuda S, Iwasaki T*⁴, Kuniyasu H*⁴, Kambe N*⁴. AlCl₃-catalyzed insertion of isocyanides into nitrogen-sulfur bonds of sulfenamides. JSPS Japanese-German Graduate Externship International Symposium "Biotechnology and Chemistry for Green Growth" 2015. 3. 10 吹田市.
2. 牧田佳真, 井上将史*⁷, 片山夏輝*⁷, 李 信翰*⁷, 藤原真一, 小川昭弥*⁷. Synthesis and properties of Gd-MRI contrast agents bearing TTTA ligands. 日本化学会第 95 春季年会 2015. 3. 27 船橋市.

3. 山内大樹^{*4}, 津田 進, 岩崎孝紀^{*4}, 藤原眞一, 国安 均^{*4}, 神戸宣明^{*4}. メチル化シクロデキストリンを連結したシクロペンタジエニル配位子の合成と応用. 日本化学会第95春季年会 2015. 3. 28 船橋市.
4. 長家茉耶, 本田義知, 西浦亜紀, 藤原眞一, 松本尚之. 包括的タバコ煙成分によるラットの実験的菌の移動および破骨細胞形成への影響. 第33回日本骨代謝学会学術集会 2015. 7. 25 東京.
5. 長家茉耶, 西浦亜紀, 本田義知, 藤原眞一, 松本尚之. タバコ煙成分が実験的菌の移動速度および骨吸収メカニズムに与える影響の検証. 第74回日本矯正歯科学会大会 2015. 11. 19 福岡市.
6. Katayama N^{*7}, Makita Y, Ogawa A^{*7}. Structure and synthesis of a heteroditopic hemicryptophane host. 3rd OPU-TKU International Symposium on Frontier Chemistry and Materials for 21st Century 2015. 11. 19 Sakai, Japan.
7. Lee S^{*7}, Makita Y, Ogawa A^{*7}. Synthesis of a pseudo [2] rotaxane formed by hemicryptophane and curcubituril. 3rd OPU-TKU International Symposium on Frontier Chemistry and Materials for 21st Century 2015. 11. 19 Sakai, Japan.
8. Yamauchi H^{*4}, Tsuda S, Iwasaki T^{*4}, Fujiwara S, Kuniyasu H^{*4}, Kambe N^{*4}. Synthesis of cyclopentadienyl rhodium complexes bearing a cyclodextrin and their application to catalytic reactions. International Chemical Congress of Pacific Basin Societies 2015 (PACIFICHEM 2015) 2015. 12. 16 Honolulu, Hawaii, USA.
9. Makita Y, Fujiwara S, Ogawa A^{*7}. Synthesis of Gd-MRI contrast agents bearing TTTA ligands and their structure-MRI properties relationship. International Chemical Congress of Pacific Basin Societies 2015 (PACIFICHEM 2015) 2015. 12. 17 Honolulu, Hawaii, USA.
10. Tsuda S, Asahi K^{*4}, Iwasaki T^{*4}, Fujiwara S, Kuniyasu H^{*4}, Kambe N^{*4}. Enantioselective Rh-catalyzed addition of arylboronic acids to aldehydes using NHC ligands bearing a cyclodextrin. International Chemical Congress of Pacific Basin Societies 2015 (PACIFICHEM 2015) 2015. 12. 17 Honolulu, Hawaii, USA.

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