

平成23年度 研究業績

馬場章夫 (大阪大学大学院工学研究科、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) Synthesis of a Wide Range of Thioethers by Indium Triiodide Catalyzed Direct Coupling between Alkyl Acetates and Thiosilanes
Nishimoto, Y.; Okita, A.; Yasuda, M.; Baba, A. * *Org. Lett.* **2012**, in press.
- (2) Recognition of Aromatic Compounds by π Pocket within a Cage-Shaped Borate Catalyst
Nakajima, H.; Yasuda, M.; Takeda, R. Baba, A. * *Angew. Chem., Int. Ed.*, in press.
- (3) Direct Use of Esters in the Mukaiyama Aldol Reaction: A Powerful and Convenient Alternative to Aldehydes
Inamoto, Y.; Nishimoto, Y.; Yasuda, M.; Baba, A.* *Org. Lett.*, **2012**, *14*, 1168-1171.
- (4) Regio- and Stereoselective Carbobismuthination of Alkynes
Nishimoto, Y.; Takeuchi, M.; Yasuda, M.; Baba, A.* *Angew. Chem., Int. Ed.*, **2012**, *51*, 1051-1054.
- (5) $\text{InI}_3/\text{Me}_3\text{SiI}$ -catalyzed Direct Alkylation of Enol Acetates Using Alkyl Acetates or Alkyl Ethers
Onishi, Y.; Nishimoto, Y.; Yasuda, M.; Baba, A.* *Chem. Lett.*, **2011**, *40*, 1223-1225.
- (6) Direct Synthesis of Alkynylstannanes: ZnBr_2 Catalyst for the Reaction of Tributyltin Methoxide and Terminal Alkynes
Kiyokawa, K.; Tachikake, N.; Yasuda, M.; Baba, A.* *Angew. Chem., Int. Ed.*, **2011**, *50*, 10393-10396.
- (7) Stabilization of Excited State Using Through-Space Interaction between Independent π -Systems Mediated by a *peri*-Substituted Hydroxy Group in 1-Arylnaphthalenes: Unexpected Blue Emission of 1,3,5-Tris(*peri*-hydroxynaphthyl)benzene
Nakajima, H.; Yasuda, M.; Shimizu, K.; Toyoshima, N.; Tsukahara, Y.; Kobayashi, T.; Nakamura, S.; Chiba, K.; Baba, A.* *Bull. Chem. Soc. Jpn.*, **2011**, *84*, 1118-1129.
- (8) Carbogallation of Alkynes Using Gallium Tribromide and Silyl Ketene Acetals and Synthetic Application to Cross-Coupling with Aryl Iodides
Nishimoto, Y.; Ueda, H.; Yasuda, M.; Baba, A.* *Chem. Eur. J.*, **2011**, *17*, 11135-11138.
- (9) Indium Tribromide Catalyzed Cross-Claisen Condensation between Carboxylic Acids and Ketene Silyl Acetals Using Alkoxyhydrosilanes
Nishimoto, Y.; Okita, A.; Yasuda, M.; Baba, A.* *Angew. Chem., Int. Ed.*, **2011**, *50*, 8623-8625.
- (10) $\text{InCl}_3/\text{Me}_3\text{SiBr}$ -Catalyzed Direct Coupling between Silyl Ethers and Enol Acetates

- Onishi, Y.; Nishimoto, Y.; Yasuda, M.; Baba, A.* *Org. Lett.*, **2011**, *13*, 2762-2765.
- (11) Substituted Butenylindium Generated by Transmetalation of Cyclopropylmethylstannane with Indium Iodide: Synthesis and Characterization of Monobutenylindium
Kiyokawa, K.; Yasuda, M.; Baba, A.* *Organometallics*, **2011**, *30*, 2039-2043.
- (12) Synthesis of Cyclopropane-Containing Phosphorus Compounds by Radical Coupling of Butenylindium with Iodo Phosphorus Compounds
Kiyokawa, K.; Suzuki, I.; Yasuda, M.; Baba, A.* *Eur. J. Org. Chem.*, **2011**, 2163-2171.

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) Cage-Shaped Borate Esters with Multiple Tuning Factors: Geometric and Substituent Effects on their Lewis Acid Properties
Yasuda, M.; Nakajima, H.; Nakaoka, K.; Baba, A. The 6th International Conference on Cutting-Edge Organic Chemistry in Asia (ICCEOCA-6) and The 2nd New Phase International Conference on Cutting-Edge Organic Chemistry in Asia (NICCEOCA-2), Hong Kong, 2011.12.11-15（ポスター発表）.
- (2) Direct Coupling between Enol Acetates and Alkyl Acetates or Alkyl Ethers Catalyzed by Combined Lewis Acid of InI_3 and Me_3SiI
Onishi, Y.; Nishimoto, Y.; Yasuda, M.; Baba, A. The Seventh International Symposium on Integrated Synthesis (ISIS-7), Kobe, Japan, 2011.10.9-10（ポスター発表）
- (3) Alkylindium Species for Coupling Reaction with Organic Halides in a Radical Manner
Yasuda M.; Kiyokawa K.; Baba A. The 5th Pacific Symposium on Radical Chemistry (PSRC-5), Shirahama, Japan, 2011.9.25-28（口頭発表）
- (4) Radical Allylation of Iodo Phosphonates Using Organostannanes or Organoindiums
Suzuki I.; Kiyokawa K.; Yasuda M.; Baba A. The 5th Pacific Symposium on Radical Chemistry (PSRC-5), Shirahama, Japan, 2011.9.25-28（ポスター発表）