

平成22年度 研究業績

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1. 発表論文等 (査読付き論文, 著書, 総説等の発表状況)

- (1) A Tandem Reaction of Organozinc Reagent Prepared from Palladium-Catalyzed Umpolung Method: Diastereoselective Formation of Cyclohexene Derivatives Bearing Three Adjacent Stereocenters
Sada, M.; Nomura, K.; Matsubara, S.* *Org. Biomol. Chem.* **2011**, *9*, 1389.
- (2) Reaction Pathway of Methylenation of Carbonyl Compounds with Bis(iodozincio)methane
Sada, M.; Komagawa, S.; Uchiyama, M.; Kobata, M.; Mizuno, T.; Utimoto, K.; Oshima, K.; Matsubara, S.* *J. Am. Chem. Soc.* **2010**, *132*, 17452.
- (3) Effects of a Flexible Alkyl Chain on an Imidazole Ligand for Copper-Catalyzed Mannich Reactions of Terminal Alkynes
Okamura, T.; Asano, K.; Matsubara, S.* *Synlett* **2010**, 3053.
- (4) Preparation of a Cycloheptane Ring from a 1,2-Diketone with High Stereoselectivity
Takada, Y.; Nomura, K.; Matsubara, S.* *Org. Lett.* **2010**, *12*, 5204.
- (5) Effects of a Flexible Alkyl Chain on a Ligand for CuAAC Reaction
Asano, K.; Matsubara, S.* *Org. Lett.* **2010**, *12*, 4988.
- (6) Nickel-Catalyzed [2+2+1] Cycloaddition of Alkynes, Acrylates and Isocyanates
Ozawa, T.; Horie, H.; Kurahashi, T.; Matsubara, S.* *Chem. Commun.* **2010**, *46*, 8055.
- (7) Decarbonylative Cycloaddition of Phthalimides with 1,3-Dienes
Fujiwara, K.; Kurahashi, T.; Matsubara, S.* *Org. Lett.* **2010**, *12*, 4548.
- (8) Selective Synthesis of Trienes and Dienes via Nickel-Catalyzed Intermolecular Cotrimerization of Acrylates and Alkynes
Horie, H.; Kurahashi, T.; Matsubara, S.* *Chem. Commun.* **2010**, *46*, 7229.
- (9) Nickel-Catalyzed [4+2] Cycloaddition of Alkynes to Carbonylsalicylamides via Elimination of Isocyanates
Yoshino, Y.; Kurahashi, T.; Matsubara, S.* *Chem. Lett.* **2010**, *39*, 896.
- (10) 1,4-Addition of Bis(iodozincio)methane to α,β -Unsaturated Ketones: Chemical and Theoretical/Computational Studies
Sada, M.; Furuyama, T.; Komagawa, S.; Uchiyama, M.; Matsubara, S.* *Chem.-A Eur. J.* **2010**, *16*, 10474.

- (11) Design of Reaction Media for Nucleophilic Substitution Reactions by Using a Catalytic Amount of an Amphiphilic Imidazolium salt in Water
Asano, K.; Matsubara, S.* *Heterocycles* **2010**, *80*, 989.
- (12) Preparation of Ester-Group Substituted Allylic Zinc by Palladium-Catalyzed Umpolung of γ -Acyloxy- α,β -Unsaturated Ester by Bis(iodozincio)methane
Ueno, S.; Sada, M.; Matsubara, S.* *Chem. Lett.* **2010**, *39*, 96.
- (13) A Tandem Reaction Initiated by 1,4-Addition of Bis(iodozincio)methane for 1,3-Diketone Formation
Sada, M.; Matsubara, S.* *J. Am. Chem. Soc.* **2010**, *132*, 432.
- (14) A New Zincate-Mediated Rearrangement Reaction of 2-(1-Hydroxyalkyl)-1-alkylcyclopropanol
Nomura, K.; Matsubara, S.* *Chem.-A Eur. J.* **2010**, *16*, 703.
- (15) Stereospecific Construction of Chiral Tertiary and Quaternary Carbon by Nucleophilic Cyclopropanation with Bis(iodozincio)methane
Nomura, K.; Matsubara, S.* *Chem.-An Asian J.* **2010**, *5*, 147.
- (16) Syntheses of Heterocycles by Nickel-catalyzed Substitution Reaction-Development of [6-2+2] Reaction
Kurahashi, T.; Matsubara, S.* *J. Synth. Org. Chem. Jpn* **2010**, *68*, 33

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) Tandem Reaction Initiated by 1,4-Addition of Bis(iodozincio)methane for 1,3-Diketone Formation.
Matsubara, S. Pacifichem 2010, ID318, Honolulu, Hawaii, USA, 2010.12.16 (Invited, 口頭発表).
- (2) Steric Effect of a Flexible Alkyl Chain on a Ligand for CuAAC Reaction.
Asano, K.; Matsubara, S. Pacifichem 2010, ID428, Honolulu, Hawaii, USA, 2010.12.16 (ポスター発表).
- (3) Nickel Catalyzed Codimerization of Acrylic Acid Derivatives and Alkynes.
Horie, T.; Kurahashi, T.; Matsubara, S. Pacifichem 2010, ID1533, Honolulu, Hawaii, USA, 2010.12.16 (ポスター発表).
- (4) Nickel-Catalyzed Decarbonylative Cycloaddition of Phthalimides with 1,3-Dienes.
Fujiwara, K.; Kurahashi, T.; Matsubara, S. The 6th International Symposium on Integrated Synthesis, P-37, Kobe, Japan, 2010.10.23 (ポスター発表) .

- (5) Nickel-Catalyzed [2+2+1] Cycloaddition of Alkynes, Acrylates and Isocyanates.
Ozawa, T.; Horie, H.; Kurahashi, T.; Matsubara, S. The 6th International Symposium on Integrated Synthesis, P-38, Kobe, Japan, 2010.10.23 (ポスター発表) .

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

特になし

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

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