

平成24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) Synthesis of Hexa(furan-2-yl)benzenes and Their π -Extended Derivatives

Mitsudo, K.*; Harada, J.; Tanaka, Y.; Mandai, H.; Nishioka, C.; Tanaka, H.; Wakamiya, A.; Murata, Y.; Suga, S.* *J. Org. Chem.* **2013**, *78*, 2763–2768.

(2) Electro-reductive Halogen–Deuterium Exchange and Methylation of Aryl Halides in Acetonitrile

Mitsudo, K.*; Okada, T.; Shimohara, S.; Mandai, H.; Suga, S.* *Electrochemistry* **2013**, in press.

(3) Recyclable Palladium Catalyst in PEG/CH₃CN Biphasic System for Electro-oxidative Wacker-type Reaction

Mitsudo, K.*; Fukunaga, S.; Fujita, T.; Mandai, H.; Suga, S.; Tanaka, H.* *Electrochemistry* **2013**, in press.

(4) Kinetic Resolution of Secondary Alcohols by Chiral DMAP Derivatives Prepared by the Ugi Multicomponent Reaction

Mandai, H.*; Irie, S.; Akehi, M.; Yuri, K.; Yoden, M.; Mitsudo, K.; Suga, S.* *Heterocycles* **2013**, *87*, 329–340.

(5) Site-selective sequential coupling reactions controlled by “Electrochemical Reaction Site Switching”: a straightforward approach to 1,4-bis(diaryl)buta-1,3-diyne

Mitsudo, K.*; Kamimoto, N.; Murakami, H.; Mandai, H.; Wakamiya, A.; Murata, Y.; Suga, S.* *Org. Biomol. Chem.* **2012**, *10*, 9562–9569.

(6) Kinetic Resolution of Secondary Alcohols by the Combination of a Chiral Brønsted Acid, DABCO, and Acetyl Chloride

Mandai, H.*; Murota, K.; Mitsudo, K.; Suga, S.* *Org. Lett.* **2012**, *14*, 3486–3489.

(7) Synthesis of Nitrogen-Bridged Terthiophenes by Tandem Buchwald–Hartwig Coupling and Their Properties

Mitsudo, K.*; Shimohara, S.; Mizoguchi, J.; Mandai, H.; Suga, S.* *Org. Lett.* **2012**, *14*, 2702–2705.

(8) Electro-reductive cyclization of aryl halides promoted by fluorene derivatives

Mitsudo, K.*; Nakagawa, Y.; Muzukawa, J.; Tanaka, H.; Akaba, R.; Okada, T.; Suga, S.* *Electrochim. Acta* **2012**, *82*, 444–449.

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) Synthesis and Properties of Nitrogen-Bridged Terthiophenes

Mitsudo, K.; Shimohara, S.; Suga, S. The Twelfth International Kyoto Conference on New Aspects of Organic Chemistry (IKCOC-12), リーガロイヤル京都(京都), 2012.11.12-16 (ポスター発表) .

(2) Reactions Using Electrochemically Generated Organo-Dications

Onishi, Y.; Kawakami, M.; Takasuka, Y.; Okamura, Y.; Mitsudo, K.; Suga, S. The Twelfth International Kyoto Conference on New Aspects of Organic Chemistry (IKCOC-12), リーガロイヤル京都(京都), 2012.11.12-16 (ポスター発表) .

(3) Site-Selective Sequential Coupling Reactions Controlled by “Electrochemical Reaction Site Switching (e-RSS)” : a Straightforward Approach to 1,4-Bis(diaryl)butadiynes

Kamimoto, N.; Mitsudo, K.; Suga, S. The Twelfth International Kyoto Conference on New Aspects of Organic Chemistry (IKCOC-12), リーガロイヤル京都(京都), 2012.11.12-16 (ポスター発表) .

(4) Synthesis and properties of nitrogen-bridged terthiophenes

Mitsudo, K. 1st Okayama Symposium on Interplay between Material Science and Organic Synthesis, Okayama International Center, Okayama University, 2012.11.7-8 (口頭発表) .

(5) Synthesis and Properties of Nitrogen-Bridged Terthiophenes

Mitsudo, K.; Shimohara, S.; Suga, S. Pacific Rim Meeting on Electrochemical and Solid-state Science (PRiME 2012), Honolulu, Hawaii, USA, 2012.10.7-12 (口頭発表) .

(6) PB.123 Site-Selective Sequential Coupling Reactions Controlled by Electrochemical Reaction Site Switching: a Straightforward Approach to Tetraarylbutadiynes

Mitsudo, K.; Kamimoto, N.; Suga, S. XXV International Conference on Organometallic Chemistry (ICOMC2012), Lisbon, Portugal, 2012.9.2-7 (ポスター発表) .

3. 特許

なし

4. 学会・シンポジウム等の開催状況

なし

5. 受賞等

なし

6. 新聞報道等

なし

7. 国民との科学・技術対話

なし

8. 領域内の共同研究の準備・実施状況とその成果

(1) 共同研究先：大阪大学， 蔦巣守（A01 班， 公募班員）

派遣人員（派遣）：派遣せず

派遣期間（派遣）：派遣せず

共同研究内容：電気化学的なアニオン性ニッケル触媒種の発生と反応

共同研究成果：現在のところ反応は進行していないので、より詳細な検討を行なっている。