

ASI 侯有機金属化学研究室

誌 上 発 表 Publications

[雑誌]

(原著論文) * 印は査読制度がある論文誌

Zhang W., Zhang S., Sun X., Nishiura M., Hou Z., and Xi Z.: "Zirconium- and silicon-containing intermediates with three fused rings in a zirconocene-mediated intermolecular coupling reaction", *Angew. Chem. Int. Ed.* **48**, 7227–7231 (2009). *

Takenaka Y., Shima T., Baldamus J., and Hou Z.: "Reduction of transition-metal-coordinated carbon monoxide by a rare-earth hydride cluster: Isolation of well-defined heteromultimetallic oxycarbene, oxymethyl, carbene, and methyl complexes", *Angew. Chem. Int. Ed.* **48**, 7888–7891 (2009). *

Liu Y., Ye K., Fan Y., Song W., Wang Y., and Hou Z.: "Amidinate-ligated iridium(III) bis(2-pyridyl)phenyl complex as an excellent phosphorescent material for electroluminescence devices", *Chem. Commun.* **2009**, No. 25, pp. 3699–3701 (2009). *

Li X., Nishiura M., Hu L., Mori K., and Hou Z.: "Alternating and random copolymerization of isoprene and ethylene catalyzed by cationic half-sandwich scandium alkyls", *J. Am. Chem. Soc.* **131**, No. 38, pp. 13870–13882 (2009). *

Wang Z., Wang Y., Zhang W., Hou Z., and Xi Z.: "Efficient one-pot synthesis of 2,3-Dihydropyrimidinethiones via multicomponent coupling of terminal alkynes, elemental sulfur, and carbodiimides", *J. Am. Chem. Soc.* **131**, No. 42, pp. 15108–15109 (2009). *

Takimoto M., Usami S., and Hou Z.: "Scandium-catalyzed regio- and stereospecific methylalumination of silyloxy/alkoxy-substituted alkynes and alkenes", *J. Am. Chem. Soc.* **131**, 18266–18268 (2009). *

Peng T., Bi H., Liu Y., Fan Y., Gao H., Wang Y., and Hou Z.: "Very high-efficiency red-electroluminescence devices based on an amidinate-ligated phosphorescent iridium complex", *J. Mater. Chem.* **19**, 8072–8074 (2009). *

Shima T. and Hou Z.: "Rare earth/d-transition metal heteromultimetallic polyhydride complexes based on half-sandwich rare earth moieties", *Organometallics* **28**, No. 7, pp. 2244–2252 (2009). *

Li S., Cui D., Li D., and Hou Z.: "Highly 3,4-selective polymerization of isoprene with NPN ligand stabilized rare-earth metal bis (alkyl)s. Structures and performances", *Organometallics* **28**, No. 16, pp. 4814–4822 (2009). *

Takenaka Y. and Hou Z.: "Lanthanide terminal hydride complexes bearing two sterically demanding $C_5Me_4SiMe_3$ ligands. Synthesis, structure, and reactivity", *Organometallics* **28**, No. 17, pp. 5196–5203 (2009). *

Nakajima Y. and Hou Z.: "Rare-earth-metal/platinum

heterobinuclear complexes containing reactive Ln-alkyl groups(Ln=Y,Lu): Synthesis, structural characterization, and reactivity", *Organometallics* **28**, 6861–6870 (2009). *

(総説)

鈴木俊彰, 張文雄, 西浦正芳, 侯召民: "ハーフサンドイッチ型希土類錯体触媒を用いた有機合成反応の開発", *有機合成化学協会誌* **67**, No. 5, pp. 451–464 (2009).

口 頭 発 表 Oral Presentations

(国際会議等)

Mizuno N., Shima T., Hou Z., and Takata M.: "Direct Visualization of Hydrogen Behavior in Rare-Earth/Transition-Metal Hydride Clusters by SR Charge Density Study", 15th International Conference Applications of Computer Algebra (ACA 2009), Montreal, Canada, June (2009).

Hou Z.: "Half-sandwich rare earth dialkyl complexes leading to novel polymerization catalysts and hydride clusters", International Start-up Conference of Cutting-Edge Organic Chemistry in Asia(II), (Chiba University), Chiba, Aug. (2009).

Hou Z.: "Rare earth metal dialkyls leading to novel polymerization catalysts and hydride clusters", 13th Asian Chemical Congress (13ACC 2009), (Chinese Chemical Society/Shanghai Institute of Organic Chemistry, CAS), Shanghai, China, Sept. (2009).

Hou Z.: "Unprecedented precise control of isoprene polymerization", 5th Sino-Japanese Symposium on Organic Chemistry for Young Scientists, (Sichuan University and Chengdu Institute of Organic Chemistry), Chengdu, China, Oct. (2009).

Fujikawa S., Kubo W., and Takemoto H.: "Formation of hierarchical structures of molecular assembly with nanotube structures by dielectrophoresis", 2009 MRS Fall Meeting Symposia, (Materials Research Society), Boston, USA, Nov.–Dec. (2009).

(国内会議)

瀧本真徳: "カチオン性スカンジウム触媒によるアルキン及びアルケンの選択的カルボメタル化反応", 科研費特定領域「元素相乗系化合物の化学」第5回若手コロキウム, 高崎, 4月 (2009).

島隆則, 侯召民: "シクロペンタジエニル系配位子を有する新規希土類ヒドリドクラスターの合成と構造", 第26回希土類討論会, (日本希土類学会), 札幌, 5月 (2009).

西浦正芳, 李曉芳, 森響一, 侯召民: "希土類触媒によるイソブレンとエチレンの交互およびランダム共重合", 第26回希土類討論会, (日本希土類学会), 札幌, 5月 (2009).

侯召民: "高性能希土類触媒の開発と精密重合・機能分子合成への展開", 第26回希土類討論会, (日本希土類学会), 札幌, 5月 (2009).

今野陽介, 西浦正芳, 侯召民: "多核希土類ポリヒドリド錯体とシクロオクタテトラエンの反応", 第26回希土類討論会, (日本希土類学会), 札幌, 5月 (2009).

田中拓男, 武安伸幸, 小泉真理, 久保若奈, 藤川茂紀: "ナノ

フィンアレイ構造を用いたテラヘルツ帯における類似プラズモニック金属”, 理研シンポジウム「エクストリームフォトニクスシンポジウム：光で繋ぐ理研の基礎科学」, 和光, 5月 (2009).

侯召民: “重合反応の開発と物質科学への応用”, 平成 21 年度 前期有機合成化学講習会, 東京, 6 月 (2009).

侯召民: “希土類錯体触媒：基礎から応用まで”, 第 47 回触媒 研究懇談会, (触媒学会関西地区), 富山, 7-8 月 (2009).

島隆則: “希土類ヒドリドクラスターの反応化学”, 第 59 回錯 体化学討論会, (錯体化学会), 長崎, 9 月 (2009).

西浦正芳, 王子涛, Huang X., 張文雄, 席振峰, Xi Z., 侯召民: “三核希土類メチリデンポリメチル錯体の合成と反応性”, 第 59 回錯体化学討論会, (錯体化学会), 長崎, 9 月 (2009).

西浦正芳, 侯召民: “希土類触媒によるイソプレンとエチレン のランダムおよび交互共重合”, 第 58 回高分子討論会併設 シンポジウム「協奏機能触媒と高分子化学」, (文部科学省 科学研究費補助金特定領域研究 460 「協奏機能触媒」), 熊 本, 9 月 (2009).