

## 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 L., Cheng J., Ohishi T., and Hou Z.: "Copper-catalyzed direct carboxylation of C-H bonds with carbon dioxide", *Angew. Chem. Int. Ed.* **49**, 8670–8673 (2010). \*

Jian Z., Cui D., Hou Z., and Li X.: "Living catalyzed-chain-growth polymerization and block copolymerization of isoprene by rare-earth metal allyl precursors bearing a constrained-geometry-conformation ligand", *Chem. Commun.* **46**, 3022–3024 (2010). \*

Shima T. and Hou Z.: "Selective ammonolysis of half-sandwich rare-earth metal dialkyl and polyhydride complexes: synthesis of polyamido rare-earth complexes having novel structures", *Dalton Trans.* **39**, 6858–6863 (2010). \*

Stewart T., Nishiura M., Konno Y., Hou Z., McIntyre G. J., and Bau R.: "The space between:neutron diffraction studies reveal multiple hydrogen atom coordination numbers in an anionic dysprosium hydride cluster", *Inorg. Chim. Acta* **363**, 562–566 (2010). \*

Li X. and Hou Z.: "Scandium-catalyzed regio- and stereospecific *cis*-1,4-polymerization of 1,3-cyclohexadiene and copolymerization with ethylene", *Macromolecules* **43**, No. 21, pp. 8904–8909 (2010). \*

Pan L., Zhang K., Nishiura M., and Hou Z.: "Syn-diospecific living copolymerization of styrene with  $\varepsilon$ -caprolactone by scandium catalysts", *Macromolecules* **43**, 9591–9593 (2010). \*

Cheng J., Shima T., and Hou Z.: "Rare-earth polyhydride complexes bearing bis(phosphinophenyl)amido pincer ligands", *Angew. Chem. Int. Ed. Engl.* **50**, 1857–1860 (2011). \*

Hong J., Zhang L., Yu X., Li M., Zhang Z., Zheng P., Nishiura M., Hou Z., and Zhou X.: "Syntheses,structures, and reactivities of homometallic rare-earth-metal multimethyl methyldene and oxo complexes", *Chem. Eur. J.* **17**, 2130–2137 (2011). \*

Du G., Wei Y., Ai L., Chen Y., Xu Q., Liu X., Zhang S., Hou Z., and Li X.: "Living 3,4-polymerization of isoprene by cationic rare earth metal alkyl complexes bearing iminoamido ligands", *Organometallics* **30**, 160–170 (2011). \*

Wang L., Cui D., Hou Z., Li W., and Li Y.: "Highly cis-1,4-selective living polymerization of 1,3-conjugated dienes and copolymerization with  $\varepsilon$ -caprolactone by bis(phosphino)carbazolidine rare-earth metal complexes", *Organometallics* **30**, 760–767 (2011). \*

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Nishiura M. and Hou Z.: "Half-sandwich rare earth metal complexes as novel catalysts for olefin polymerization and other chemical transformations", *Bull. Chem. Soc.*

*Jpn.* **83**, No. 6, pp. 595–608 (2010).

Nishiura M. and Hou Z.: "Novel polymerization catalysts and hydride clusters from rare-earth metal dialkyls", *Nat. Chem.* **2**, 257–268 (2010).

### 口頭発表 Oral Presentations

(国際会議等)

Hou Z.: "Precise control of olefin polymerization by well-defined rare-earth metal catalysts", A\*STAR-RIKEN Joint Symposium 2009, Singapore, Singapore, May (2009).

Hou Z.: "Precise control of olefin polymerization by well-defined rare earth metal catalysts", RIKEN-NTU-NUS Joint Seminar: Frontier of chemical and material sciences, Singapore, Singapore, May (2009).

Hou Z.: "Novel polymerization catalysts based on rare-earth metal complexes", 2010 WPI-AIMR Annual Workshop, Sendai, Mar. (2010).

Hou Z.: "Precise control of olefin polymerization and copolymerization by organo rare earth metal catalysts", 3rd Blue Sky Conference on Catalytic Olefin Polymerization, (Laboratory of Stereoselective Polymerizations), Naples, Italy, June (2010).

Nishiura M.: "Alternative and random copolymerization of isoprene with ethylene by cationic scandium alkyl complexes", International Symposium on Polymer Chemistry (PC 2010), (State Key Laboratory of Polymer Physics and Chemistry), Suzhou, China, June (2010).

Hou Z.: "Recent progress in the chemistry and application of group 3 and lanthanide metal complexes", Gordon Research Conferences on Organometallic Chemistry, (Gordon Research Conferences), Newport, USA, July (2010).

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Takimoto M., Usami S., and Hou Z.: "Regioselective carbometalation of alkynes and alkenes catalyzed by cationic scandium", Pre-Symposium COMC 24th Taipei 2010, (Department of Chemistry, National Taiwan University), Taipei, Taiwan, July (2010).

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- Hou Z.: “Novel polymerization catalysts based on organo rare-earth complexes”, McGill-RIKEN Scientific Workshop on Nanotechnology and Green Chemistry, (McGill University), Mont Tremblant, Canada, Sept. (2010).
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- (国内会議)
- 久保若奈, 藤川茂紀: “ナノギャップを有する金二重ナノピラー構造とプラズモンセンサーへの展開”, 第 57 回応用物理学関係連合講演会, (応用物理学会), 平塚, 3 月 (2010).
- 島隆則, 西浦正芳, 侯召民: “Cp を配位子とする希土類ヒドロキソおよびアミドクラスターの合成と構造”, 日本化学会第 90 春季年会 (2010), (日本化学会), 東大阪, 3 月 (2010).
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- 潘莉, Zhang K., 西浦正芳, 侯召民: “スカンジウム触媒によるスチレン、イソブレン及びプロラクトンのシンジオタクチックブロック共重合”, 日本化学会第 90 春季年会 (2010), (日本化学会), 東大阪, 3 月 (2010).
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- 島隆則, 侯召民: “Ligand influences on the structure and reactivity of rare-earth/group 6 heteromultimetallic polyhydride complexes”, 第 57 回有機金属化学討論会, (The Kinki Chemical Society), 八王子, 9 月 (2010).
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