

研究業績リスト

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神戸大学・工学部 森 敦紀

学術論文

- 1 Stereoselective carbonyl olefination via organosilicon compounds. Boron and titanium reagents, R. Haruta, M. Ishiguro, K. Furuta, A. Mori, N. Ikeda, and H. Yamamoto, *Chem. Lett.*, 1982 (7), 1093-1096.
- 2 Asymmetric reduction of ketone. Reductive cleavage of chiral acetals using organoaluminum reagents, A. Mori, J. Fujiwara, K. Maruoka, and H. Yamamoto, *Tetrahedron Lett.*, **24** (42), 4581-4584 (1983).
- 3 A new cyclopentanone annulation of α -bromomethacrylates, K. Furuta, A. Misumi, A. Mori, N. Ikeda, and H. Yamamoto, *Tetrahedron Lett.*, **25** (6), 669 (1984).
- 4 Nucleophilic cleavages of acetals using organotitanium reagents. A new synthesis of chiral alcohols, A. Mori, K. Maruoka, and H. Yamamoto, *Tetrahedron Lett.*, **25** (39), 4421-4424 (1984).
- 5 Nucleophilic cleavages of acetals using organometallic reagents, A. Mori, J. Fujiwara, K. Maruoka, and H. Yamamoto, *J. Organometal. Chem.*, **285** (1-3), 83-94 (1985).
- 6 Palladium-catalyzed dimerization of allenes to 2,3-bis(chloromethyl)butadienes. Synthesis of conjugate exocyclic dienes, L. S. Hegedus, N. Kambe, Y. Ishii, and A. Mori, *J. Org. Chem.*, **50** (13), 2240-2243 (1985).
- 7 Palladium(0)-catalyzed synthesis of indoloquinones, L. S. Hegedus, T. A. Mulhern, and A. Mori, *J. Org. Chem.*, **50** (22), 4282-4288 (1985).
- 8 Resolution of ketones via chiral acetals. Kinetic approach, A. Mori, and H. Yamamoto, *J. Org. Chem.*, **50** (25), 5444-5446 (1985).
- 9 An asymmetric Simmons-Smith reaction, I. Arai, A. Mori, and H. Yamamoto, *J. Am. Chem. Soc.*, **107** (26), 8254-8256 (1985).
- 10 Reductive cleavages of α , β -alkynyl acetals. New route to optically pure propargylic alcohol, K. Ishihara, A. Mori, I. Arai, and H. Yamamoto, *Tetrahedron Lett.*, **26** (8), 983-986 (1986).

- 11 Reductive cleavages of chiral acetals using Lewis acid-hydride system, A. Mori, K. Ishihara, and H. Yamamoto, *Tetrahedron Lett.*, **26** (8), 987-990 (1986).
- 12 Asymmetric Simmons-Smith reactions using homochiral protecting groups, A. Mori, I. Arai, H. Yamamoto, H. Nakai, and Y. Arai, *Tetrahedron*, **42** (23), 6447-6458 (1986).
- 13 Reductive cleavages of homochiral acetals: Inversion of the stereoselectivity, A. Mori, K. Ishihara, I. Arai, and H. Yamamoto, *Tetrahedron*, **43** (4), 755-764 (1987).
- 14 Stereoselective reduction of bicyclic acetals. A method for reductive generation of heterocyclic ring systems. K. Ishihara, A. Mori, and H. Yamamoto, *Tetrahedron Lett.* **28** (52), 6613-6616 (1987).
- 15 Cyclo-((S)-leucyl-(S)-histidyl). A catalyst for asymmetric addition of hydrogen cyanide to aldehydes. A. Mori, Y. Ikeda, K. Kinoshita, and S. Inoue, *Chem. Lett.*, 1989 (12), 2119-2122.
- 16 The cyclic dipeptide cyclo[(S)-phenylalanyl-(S)-histidyl] as a catalyst for asymmetric addition of hydrogen cyanide to aldehydes, K. Tanaka, A. Mori, and S. Inoue, *J. Org. Chem.*, **55** (1), 181-185 (1990).
- 17 Cyano group transfer of acetone cyanohydrin to aldehyde mediated by titanium alkoxide and aluminum alkyls, A. Mori, K. Kinoshita, M. Osaka, and S. Inoue, *Chem. Lett.*, 1990 (7), 1171-1172.
- 18 Stereoselective reduction of acetals. A method for reductive generation of heterocyclic ring systems, K. Ishihara, A. Mori, and H. Yamamoto, *Tetrahedron*, **46** (13/14), 4595-4612 (1990).
- 19 A novel rate enhancement in titanium and zirconium alkoxide mediated cyano group transfers by the addition of salicylal type Schiff Base, dl-3-(2-hydroxy-1-naphthylidene)-imino- ϵ -caprolactam. A neighboring amide effect. A. Mori, and S. Inoue, *Chem. Lett.*, 1991 (1), 145-148.
- 20 Asymmetric cyanosilylation of aldehydes promoted by a novel chiral Lewis acid, organoaluminum complex of acyclic dipeptide esters or α -amino amides containing phenolic Schiff base. A. Mori, H. Ohno, H. Nitta, K. Tanaka, and S. Inoue, *Synlett*, 1991 (8), 563-564.

- 21 Peptide-metal complex as an asymmetric catalyst. A catalytic enantioselective cyanohydrin synthesis. A. Mori, H. Nitta, M. Kudo, and S. Inoue, *Tetrahedron Lett.*, **32** (34), 4333-4336 (1991).
- 22 Enantioselective addition of diethylzinc to aldehyde catalyzed by α -amino acid amide. A. Mori, D. Yu, and S. Inoue, *Synlett*, 1992 (5), 427-428.
- 23 Discrimination of reaction pathways by a simple organoaluminum compound, Me_2AlCl , in Lewis acid promoted reactions of aldehydes with organosilicon reagents. A. Mori, H. Ohno, and S. Inoue, *Chem. Lett.*, 1992 (4), 631-634.
- 24 A facile synthesis of optically active γ -cyanoallylic alcohols using asymmetric hydrocyanation of α,β -alkenyl aldehyde followed by stereospecific [3,3]sigmatropic chirality transfer of the cyanohydrin acetates. H. Abe, H. Nitta, A. Mori, and S. Inoue, *Chem. Lett.*, 1992 (12), 2443-2446.
- 25 Asymmetric epoxidation of allylic alcohols catalyzed by titanium alkoxide-peptide and α -amino acid complexes anchored by phenolic Schiff base. Y. Iseki, M. Kudo, A. Mori, and S. Inoue, *J. Org. Chem.*, **57** (23), 6329-6331 (1992).
- 26 Peptide-aluminum complex as a novel chiral Lewis acid. Asymmetric addition of cyanotrimethylsilane to aldehydes. H. Ohno, H. Nitta, K. Tanaka, A. Mori, and S. Inoue, *J. Org. Chem.*, **57** (25), 6778-6783 (1992).
- 27 Peptide-titanium complex as catalyst for asymmetric addition of hydrogen cyanide to aldehyde. H. Nitta, D. Yu, M. Kudo, A. Mori, and S. Inoue, *J. Am. Chem. Soc.*, **114** (21), 7969-7975 (1992).
- 28 Lanthanoid(III) alkoxides as novel catalysts for a rapid transhydrocyanation from acetone cyanohydrin to aldehydes and ketones. H. Ohno, A. Mori, and S. Inoue, *Chem. Lett.*, 1993 (2), 375-378.
- 29 Ring opening of epoxides with acetone cyanohydrin catalyzed by lanthanoid(III) alkoxides. H. Ohno, A. Mori, and S. Inoue, *Chem. Lett.*, 1993 (6), 975-978.
- 30 Photoresponsive coordination of stilbazoles to metalloporphyrins. Y. Iseki, E. Watanabe, A. Mori, and S. Inoue, *J. Am. Chem. Soc.* **115** (16), 7313-7317 (1993).

- 31 A facile synthesis of disiloxanes with functional groups. A. Mori, T. Hishida, Y. Soga, and Y. Kawakami, *Chem. Lett.*, 1995, 107-108.
- 32 環状シロキサン, ポリジメチルシロキサンの開裂反応を利用する官能基を持つオリゴシロキサンの合成 (Synthesis of functionalized oligosiloxanes using cleavage reactions of cyclic siloxane and polydimethylsiloxane) 森 敦紀, 菱田龍啓, 川上雄資, 日本接着学会誌, 32巻 (7号) 290-293 (1996) (*Nippon Setchaku Gakkaishi*, **32**(7), 290-293 (1996)).
- 33 A facile preparation and polymerization of 1,1-difunctionalized disiloxanes. A. Mori, H. Sato, K. Mizuno, T. Hiyama, K. Shintani, Y. Kawakami, *Chem. Lett.*, 1996 (7), 517-518.
- 34 Synthesis and characterization of liquid crystalline polystyrenes with disiloxane linkage in the spacer. Y. Kawakami, H. Inoue, N. Kishimoto, and A. Mori, *Polym. Bull. (Berlin)*, **36**(6), 653-658 (1996).
- 35 Synthesis of liquid crystalline polyoxetanes bearing cyanobiphenyl mesogen and siloxane-containing substituent in the repeating unit. Y. Kawakami, M Suzuki, Y. Kato, and A. Mori, *Polym. J.*, **28**(10), 845-850 (1996).
- 36 Chirality transfer of optically active 2-cyclohexenylsilane via the palladium catalyzed cross-coupling reaction. The stereochemistry and mechanistic aspect. T. Hiyama, H. Matsuhashi, A. Fujita, M. Tanaka, K. Hirabayashi, M. Shimizu, and A. Mori, *Organometallics*, **15**(26), 5762-5765 (1996).
- 37 A facile synthesis of hydro- and vinyl-functionalized di- and tetrasiloxanes and polyaddition via hydrosilylation. K. Shintani, O Ooi, A. Mori, and Y. Kawakami, *Polym. Bull. (Berlin)*, **37** (6), 705-710 (1996).
- 38 Dehydrogenative polycondensation of telechelically bis(dimethylsilyl)-functionalized oligo(dimethylsiloxane)s or aromatics and 1,3,3,5,5,7,7,7-octamethyltetrasiloxane. K. Shintani, O. Ooi, A. Mori, Y. Kawakami, *Polym. Bull. (Berlin)*, **38**(1), 1-5 (1997).
- 39 Butadiene-functionalized poly(dimethylsiloxane) macromonomer. Y. Kawakami, K. Ajima, M. Nomura, T. Hishida, and A. Mori, *Polymer J.*, **29**(1), 95-99 (1997).
- 40 Palladium-catalyzed cross-coupling reaction of alkyltrifluorosilane with aryl halides. H. Matsuhashi, S. Asai, K. Hirabayashi, Y. Hatanaka, A. Mori, and T. Hiyama, *Bull. Chem. Soc. Jpn.*, **70**(2), 437-444 (1997).

- 41 Synthesis of cyclopropylsilanols by the Simmons-Smith reaction of alkenylsilanols and lithium alkenylsilanolates. K. Hirabayashi, A. Mori, and T. Hiyama, *Tetrahedron Lett.*, **38**(3), 461-464 (1997).
- 42 TBAHF₂ and TBAH₂F₃ as activating agents of organosilanes. A. Mori, A. Fujita, K. Ikegashira, Y. Nishihara, T. Hiyama, *Synlett* (6), 693-694 (1997).
- 43 Cu(I) promoted homo-coupling reactions of organosilicon compounds. K. Ikegashira, Y. Nishihara, K. Hirabayashi, A. Mori, T. Hiyama, *Chem. Commun.*, 1997 (11), 1039-1040.
- 44 The palladium-catalyzed cross-coupling reaction of organosilanes with allylic carbonates or diene monoxides. H. Matsushashi, S. Asai, K. Hirabayashi, Y. Hatanaka, A. Mori, T. Hiyama, *Bull. Chem. Soc. Jpn.*, **70** (8), 1943-1952 (1997).
- 45 Copper(I) salt mediated 1,4-reduction of α,β -unsaturated ketones using hydrosilanes. A. Mori, A. Fujita, Y. Nishihara, T. Hiyama, *Chem. Commun.*, 1997 (20), 2159-2160.
- 46 Cu(I)/Pd(0)-catalyzed cross-coupling reaction of alkynylsilanes with aryl or alkenyl triflate: "Sila"-Sonogashira-Hagihara coupling. Y. Nishihara, K. Ikegashira, A. Mori, T. Hiyama, *Chem. Lett.*, 1997(12), 1233-1234.
- 47 A practical synthesis of (1S, 2R)-1-amino-2-indanol, a key component of an HIV protease inhibitor, Indinavir. H. Kajiro, S. Mitamura, A. Mori, T. Hiyama, *Synlett*, 1998(1), 51-52.
- 48 Enantioselective synthesis of 2-hydroxy-1-indanone, a key precursor of enantiomerically pure 1-amino-2-indanol H. Kajiro, S. Mitamura, A. Mori, T. Hiyama, *Tetrahedron Asymmetry*, **9** (6), 907-910 (1998).
- 49 RhCl(PPh₃)₃/NaI Catalyst System for Hydrosilylation of 1-Alkynes: Stereodivergent Syntheses of E- and Z-Alkenylsilanes with Heteroatom Substituents on Silicon, A. Mori, E. Takahisa, H. Kajiro, K. Hirabayashi, Y. Nishihara, T. Hiyama, *Chem. Lett.*, 1998 (5), 443-444.
- 50 Copper(I)-catalyzed cross-coupling reaction of alkynylsilanes with 1-chloroalkynes, Y. Nishihara, K. Ikegashira, A. Mori, T. Hiyama, *Tetrahedron Lett.* **39** (23), 4075-4078 (1998).

- 51 A facile preparation and cyclopropanation of alkenylsilanols, K. Hirabayashi, E. Takahisa, Y. Nishihara, A. Mori, T. Hiyama, *Bull Chem. Soc. Jpn.*, **71** (10), 2409-2417 (1998).
- 52 A novel C-C bond forming reaction of aryl- and alkenylsilanols. A halogen-free Mizoroki-Heck type reaction, K. Hirabayashi, Y. Nishihara, A. Mori, T. Hiyama, *Tetrahedron Lett.*, **39** (43), 7893-7896 (1998).
- 53 A coupling reaction of aryltributyltin with olefins mediated by palladium(II) acetate, K. Hirabayashi, J. Ando, Y. Nishihara, A. Mori, T. Hiyama, *Synlett*, 1999 (1), 99-101.
- 54 Scandium trifluoromethanesulfonate-catalyzed mild, efficient, and selective hydrolysis of esters bearing a coordinative group, H. Kajiro, S. Mitamura, A. Mori, T. Hiyama, *Tetrahedron Lett.*, **40** (9), 1689-1692 (1999).
- 55 A Practical Synthesis of (1S, 2R)-1-Amino-2-indanol, a Key Component of an HIV Protease Inhibitor, Indinavir, H. Kajiro, S. Mitamura, A. Mori, T. Hiyama, *Bull. Chem. Soc. Jpn.*, **72** (5), 1093-1100 (1999).
- 56 Conjugate Reduction to α,β -Unsaturated Ketones with Hydrosilane Mediated by Copper(I) Salt, A. Mori, A. Fujita, H. Kajiro, Y. Nishihara, T. Hiyama *Tetrahedron*, **55** (15), 4573-4582 (1999).
- 57 Scandium Trifluoromethanesulfonate-Catalyzed Selective Cleavage of Esters Bearing a Coordinative Group at a Vicinal Position
H. Kajiro, S. Mitamura, A. Mori, T. Hiyama
Bull. Chem. Soc. Jpn., **72** (7), 1553-1560 (1999).
- 58 A Unique Chelating Effect of $\text{Sc}(\text{OTf})_3$ to Organofluorine Compounds
H. Kajiro, A. Mori, Y. Nishihara, T. Hiyama, *Chem. Lett.* (6), 459-460 (1999).
- 59 Synthesis and Optical Resolution of Novel Chiral Silanols
A. Mori, F. Toriyama, H. Kajiro, K. Hirabayashi, Y. Nishihara, T. Hiyama, *Chem. Lett.*(7), 549-550 (1999).
- 60 A new transformation of silanols. Palladium-catalyzed cross-coupling with aryl halides in the presence of silver(I) oxide.
K. Hirabayashi, J. Kawashima, Y. Nishihara, A. Mori, T. Hiyama, *Org. Lett.*, **1** (2), 299-301 (1999).

- 61 Regio- and Stereocontrolled Hydrosilylation Polyaddition Catalyzed by $\text{RhI}(\text{PPh}_3)_3$. Syntheses of Polymers containing (*E*)- or (*Z*)-Alkenylsilane Moieties, A. Mori, E. Takahisa, H. Kajiro, Y. Nishihara, T. Hiyama, *Macromolecules*, **33** (4), 1115-1116 (2000).
- 62 Substituent effect of 3,3,3-trifluoropropyl group on organic silanols. Palladium-mediated Mizoroki-Heck type and cross-coupling reactions K. Hirabayashi, T. Kondo, F. Toriyama, Y. Nishihara, A. Mori *Bull. Chem. Soc. Jpn.*, **73** (3), 749-750 (2000).
- 63 Stereodivergent hydrosilylation of 1-alkynes catalyzed by $\text{RhI}(\text{PPh}_3)_3$ leading to (*E*)- and (*Z*)-alkenylsilanes and the application to polymer synthesis A. Mori, E. Takahisa, H. Kajiro, Y. Nishihara, T. Hiyama, *Polyhedron*, **19** (5), 567-568 (2000).
- 64 Coupling reactions of alkynylsilanes mediated by a Cu(I) salt: Novel syntheses of conjugate diynes and disubstituted ethynes Y. Nishihara, K. Ikegashira, K. Hirabayashi, J. Ando, A. Mori, and T. Hiyama, *J. Org. Chem.*, **65** (6), 1780-1787 (2000).
- 65 Homo-Coupling Reactions of Alkenyl- and Arylfluorosilanes with Copper(I) Salts under Mild Conditions, Y. Nishihara, K. Ikegashira, F. Toriyama, A. Mori, T. Hiyama, *Bull. Chem. Soc. Jpn.* **73** (4), 985-990 (2000).
- 66 A novel cross-coupling polycondensation of alkynylsilanes with aryl triflates catalyzed by $\text{CuCl}/\text{Pd}(\text{PPh}_3)_4$ Y. Nishihara, J. Ando, T. Kato, A. Mori, T. Hiyama, *Macromolecules*, **33** (8), 2779-2781 (2000).
- 67 Novel Carbon-Carbon Bond Formation Through Mizoroki-Heck Type Reaction of Silanols and Organotin Compounds, K. Hirabayashi, J. Ando, J. Kawashima, Y. Nishihara, A. Mori, T. Hiyama, *Bull. Chem. Soc. Jpn.* **73** (6), 1409-1417 (2000).
- 68 Palladium-catalyzed cross-coupling of silanols, silanediols, and silanetriols promoted by silver(I) oxide, K. Hirabayashi, A. Mori, J. Kawashima, M. Suguro, Y. Nishihara, T. Hiyama, *J. Org. Chem.* **65** (17), 5342-5349 (2000) .
- 69 Non-Sonogashira-type palladium-catalyzed coupling reactions of terminal alkynes assisted by silver(I) oxide or tetrabutylammonium fluoride, A. Mori, J. Kawashima, T. Shimada, M. Suguro, K. Hirabayashi, Y. Nishihara, *Org. Lett.*, **2** (19), 2935-2937 (2000).
- 70 Reaction of alkynylsilanes with CuCl in polar solvents leading to alkynyl group transfer from Si to Cu, Y. Nishihara, M. Takemura, A. Mori, K. Osakada, *J. Organomet. Chem.*, **62** (1-2), 282-286 (2001).

- 71 Si-C bond activation of ArMe_2SiOH promoted by bromoplatinum(II) complex and Ag_2O . Aryl group transfer from silicon to platinum, N. Mintcheva, Y. Nishihara, M. Tanabe, K. Hirabayashi, A. Mori, K. Osakada, *Organometallics*, **20** (6), 1243-1246 (2001).
- 72 Palladium-catalyzed cross-coupling polycondensation of bisalkynes with dihaloarenes activated by tetrabutylammonium hydroxide or silver(I) oxide A. Mori, T. Kondo, T. Kato, and Y. Nishihara, *Chem. Lett.* (4), 286-287 (2001).
- 73 A Highly Effective Pd/Cu-Catalyzed Coupling Reaction of Terminal Alkynes with Organic Halides Promoted by Tetrabutylammonium Fluoride or Hydroxide A. Mori, T. Shimada, T. Kondo, and A. Sekiguchi, *Synlett*, (5) 649-651 (2001).
- 74 Isomerization of (*E*)-alkenylsilanes to (*Z*)-isomers using hydrosilanes and $\text{RhI}(\text{PPh}_3)_3$, A. Mori, E. Takahisa, Y. Nishihara, and T. Hiyama, *Can. J. Chem.* **79** (11), 1522-1524 (2001).
- 75 Reaction of HOSiMe_2Ar with Pt-PPh_3 complexes leading to Si-C bond activation or formation of a siloxoplatinum complex, N. Mintcheva, Y. Nishihara, A. Mori, K. Osakada, *J. Organomet. Chem.*, **629** (1-2), 61-67 (2001).
- 76 Silicone as a new class of organosilicon reagent for the palladium-catalyzed cross-coupling reaction, A. Mori and M. Suguro, *Synlett*, (6), 845-847 (2001).
- 77 Homo-coupling polycondensation of bis(alkynylsilane)s mediated by copper(I) chloride. A new synthesis of poly(arylene-1,3-butadiynylene)s, Y. Nishihara, T. Kato, J. Ando, A. Mori, T. Hiyama, *Chem. Lett.*(10), 950-951 (2001).
- 78 Mizoroki-Heck type reaction of organoboron reagents with alkenes and alkynes. A Pd(II)-catalyzed pathway with $\text{Cu}(\text{OAc})_2$ as an oxidant, X. Du, M. Suguro, K. Hirabayashi, A. Mori, T. Nishikata, N. Hagiwara, K. Kawata, T. Okeda, H.-F. Wang, K. Fugami, M. Kosugi *Org. Lett.* **3** (21), 3313-3316 (2001).
- 79 International chemistry olympiad: Survey on the circumstances of its participant countries. M. M. Ito, T. Tatsumi, H. Hosoya, K. Kamogawa, A. Mori, Y. Noda, H. Sugimura, Y. Takeuchi, K. Tatsuta, Y. Ueno, T. Yamanouchi, *Chem. Education, J.* **5**, 5-16 (2001).
- 80 Hydroxorhodium complex-catalyzed carbon-carbon bond forming reactions of silanediols with α,β -unsaturated carbonyl compounds. Mizoroki-Heck type reaction vs conjugate addition, A. Mori, Y. Danda, T. Fujii, K. Hirabayashi, K. Osakada, *J. Am. Chem. Soc.*, **123** (43), 10774-10775 (2001).

- 81 Rhodium-catalyzed hydroarylation and -alkenylation of alkynes with silanediols. A crucial role of the hydroxy group for the catalytic reaction T. Fujii, T. Koike, A. Mori, and K. Osakada, *Synlett* (2), 295-297 (2002).
- 82 Rhodium-catalyzed addition of aryl- and alkenylsilanediols to aldehydes. T. Fujii, T. Koike, A. Mori, and K. Osakada, *Synlett* (2), 298-300 (2002).
- 83 Silicone as organosilicon reagent 2. Rhodium-catalyzed conjugate addition of the silicone reagent to α,β -unsaturated carbonyl compounds. T. Koike, X. Du, A. Mori, and K. Osakada, *Synlett* (2), 301-303 (2002).
- 84 Chirality transfer from silicon to carbons via diastereoselective Simmons-Smith cyclopropanation of chiral alkenylsilanols, Y. Yamamura, F. Toriyama, T. Kondo, A. Mori, *Tetrahedron Asymm* **13** (1), 13-15 (2002).
- 85 $[\text{Rh}(\text{OH})(\text{cod})]_2$ (cod=1,5-cyclooctadiene), a highly efficient catalyst for 1,4-hydrosilylation of α,β -unsaturated carbonyl compounds, A. Mori, T. Kato, *Synlett* (7), 1169-1171(2002).
- 86 Sonogashira coupling with aqueous ammonia, A. Mori, M. S. Mohamed Ahmed, A. Sekiguchi, K. Masui, T. Koike, *Chem. Lett.* (7), 756-757 (2002).
- 87 Disproportionation of $\text{PtPh}(\text{CH}_2\text{COMe})(\text{cod})$ and Conproportionation of $\text{PtPh}_2(\text{cod})$ and $\text{Pt}(\text{CH}_2\text{COMe})_2(\text{cod})$ via Intermolecular Phenyl Ligand Transfer, Y. Suzaki, Y. Yamamura, A. Mori, K. Osakada*, *Organometallics*, **21** (24), (2002).
- 88 Iridium-catalyzed Mizoroki-Heck-type reaction of organosilicon reagents. T. Koike, X. Du, T. Sanada, Y. Danda, A. Mori, *Angew. Chem., Int. Ed.* **42** (1), 89-92 (2003); *Angew. Chem.* **115** (1), 93-96 (2003).
- 89 Facile Synthesis of 2,5-Diarylthiazoles via Palladium-Catalyzed Tandem C-H Substitutions. Design of Tunable Light Emission and Liquid Crystalline Characteristics, A. Mori, A. Sekiguchi, K. Masui, T. Shimada, M. Horie, K. Osakada, M. Kawamoto, and T. Ikeda, *J. Am. Chem. Soc.* **125** (7), 1700-1701 (2003).
- 90 Carbonylative Sonogashira coupling of terminal alkynes with aqueous ammonia, M. S. Mohamed Ahmed, A. Mori, *Org. Lett.*, **5** (17), 3057-3060 (2003).

- 91 Palladium-Catalyzed Cross-Coupling Reaction of Silicone with Aryl Chlorides,
T. Koike, A. Mori, *Synlett.*(12), 1850-1852 (2003).
- 92 Stereodivergent Syntheses of (Z)- and (E)-Alkenylsilanes via Hydrosilylation
of Terminal Alkynes Catalyzed by Rhodium(I) Iodide Complexes and
Application to Silicon-Containing Polymer Syntheses,
A. Mori, E. Takahisa, Y. Yamamura, T. Kato, A. P. Mudalige, H. Kajiro, K.
Hirabayashi, Y. Nishihara, T. Hiyama
Organometallics, **23** (8), 1755-1765 (2004).
- 93 Palladium-catalyzed C-H homocoupling of thiophenes: Facile construction of
bithiophene structure
K. Masui, H. Ikegami, A. Mori
J. Am. Chem. Soc. **126** (16), 5074-5075 (2004).
- 94 Syntheses and Properties of Donor-Acceptor-Type 2,5-Diarylthiophene and
2,5-diarylthiazole,
K. Masui, A. Mori, K. Okano, K. Takamura, M. Kinoshita, T. Ikeda,
Org. Lett. **6** (12), 2011-2014 (2004).
- 95 Sonogashira Coupling with Aqueous Ammonia Directed to the Synthesis of
Azotolane Derivatives,
M. S. Mohamed Ahmed, A. Mori, *Tetrahedron* **66** (44), 9977-9982 (2004).
- 96 Addition of organostannanes to isocyanate catalyzed by a rhodium complex,
T. Koike, M. Takahashi, N. Arai, A. Mori,
Chem. Lett. **33** (10), 1364-1365 (2004).
- 97 Aqueous Ammonia as a New Activator for Sonogashira Coupling,
M. S. Mohamed Ahmed, A. Sekiguchi, K. Masui, A. Mori,
Bull. Chem. Soc. Jpn. **78** (1), 160-168 (2005).
- 98 New Activators for the Coupling Reaction of Terminal Alkynes with Organic
Halides
M. S. Mohamed Ahmed, A. Sekiguchi, T. Shimada, J. Kawashima, A. Mori,
Bull. Chem. Soc. Jpn. **78** (2), 327-330 (2005).
- 99 One-pot construction of pyrazoles and isoxazoles with palladium-catalyzed
four-component coupling
M. S. Mohamed Ahmed, K. Kobayashi, A. Mori,
Org. Lett. **7** (20), 4487-4489 (2005).
- 100 Palladium-Catalyzed Coupling Reactions of Bromothiophenes at the C-H
Bond Adjacent to the Sulfur Atom in the Presence of AgNO₃/KF
K. Kobayashi, A. Sugie, M. Takahashi, K. Masui, A. Mori,
Org. Lett. **7** (22), 5083-5085 (2005).

- 101 Rhodium-Catalyzed Hydrosilylation of Internal Alkynes with Silane Reagents bearing Heteroatom Substituents. Studies on the Regio-/Stereochemistry and Transformation of the Produced Alkenylsilanes by Rhodium-Catalyzed Conjugate Addition
Tomoyuki Sanada, Tsuyoshi Kato, Makoto Mitani, Atsunori Mori
Adv. Synth. Cat. **348** (1/2), 51-54 (2006).
- 102 Palladium-catalyzed intramolecular CH arylation of five-membered *N*-heterocycles
Nobumichi Arai, Masabumi Takahashi, Makoto Mitani, Atsunori Mori
Synlett in press.

著書，総説

1. 有機チタン反応剤による選択的合成反応 山本 尚, 森 敦紀, 化学増刊, 105, 63-70 ページ (1985).
2. ホモキラルアセタールを用いる不斉合成 森 敦紀, 山本 尚, 化学, 42 (2), 144-145 ページ (1987).
3. キラルシントン法とは? -ホモキラルアセタールと不斉合成- 山本 尚, 森 敦紀, 有機合成化学協会誌, 45 (10), 944-956 ページ (1987).
4. Asymmetric synthesis using main group organometallic reagents. In Stereochemistry of organic and bioorganic transformations, H. Yamamoto, K. Maruoka, K. Furuta, N. Ikeda, and A. Mori; W. Bartmann and K. B. Sharpless: Eds., Workshop Conferences Hoechst, VCH: Weinheim, Fed. Rep. Ger. Vol 17, 13-29 (1987).
5. 選択的グリコシル化反応の新展開 森 敦紀 化学と工業 45 (9), 1713-1714 (1992).
6. 化学のフロンティア IX 合成ペプチドを利用する高選択的不斉合成触媒の設計 森 敦紀, 化学と工業 46 (2), 202-205 (1993).
7. 金属反応剤を用いる不斉化学合成 日本化学会編 III-15 アミノ酸誘導体 森 敦紀, 井上祥平 化学総説 No 19 183-190 (1993).
8. Amino acid, peptide and their derivatives: Powerful chiral ligands for metal catalyzed asymmetric syntheses. A. Mori, H. Abe and S. Inoue, App. Organometal. Chem., 9, 189-197 (1995).
9. 1,3-Butadienyl-2-lithium, Y. Kawakami, A. Mori, and S. Nunomoto, ed by L. E. Paquette "Encyclopedia of Reagents for Organic Synthesis", 810 (1995).
10. 1,3-Butadienyl-2-magnesium chloride, Y. Kawakami, A. Mori, and S. Nunomoto, ed by L. E. Paquette "Encyclopedia of Reagents for Organic Synthesis", 812 (1995).

11. Monodisperse polymers, Y. Kawakami and A. Mori, ed by J. C. Salamone
“The Polymeric Materials Encyclopedia Vol 6: Synthesis, Properties and
Applications”, CRC Press New York, 4522-4529 (1996).
12. Cyanation of carbonyl and imino groups, A. Mori, S. Inoue, eds by A. Pfaltz, E.
N. Jacobsen, H. Yamamoto, “Comprehensive asymmetric catalysis” Springer,
vol II, chap 28, p983 (2000).
13. トラン系液晶の合成 液晶便覧（丸善）西原康師，森 敦紀，檜山爲次郎
第4章，4.1.6, 454-455 (2000) .
14. 海外国際会議見聞録- OMCOS 10, ケイ素化学協会誌 11号, 42-43 (1999).
森 敦紀
15. 有機金属ハイライト ーニッケル（0）錯体を用いるペプチドの化学合成 リビ
ング重合・反応機構・不斉選択重合ー Organometallic News, 1999年, No 4, 118.
森 敦紀
16. Ethynylsilanes, T. Hiyama, and A. Mori, Science of Synthesis, Category 1,
Volume 4, ed by I. Fleming, Thieme Stuttgart, 2002, 647-655.
17. シロキサン, シラノールの有機化学 平林一徳, 森 敦紀 有機合成化学協会誌
58巻, 10号, 926-933 (2000)
18. キラルシラノール 森 敦紀 有機合成化学協会誌(十字路) 58巻, 10号, 1000
(2000) .
19. New synthetic reactions using silanols and siloxanes, in ‘Latest Frontiers of Organic
Synthesis’ ed by Y. Kobayashi, A. Mori. Research Signpost, Kerala (India), pp 83-102
(2002).
20. 国際化学オリンピック (IChO) への参加 竜田邦明, 本間敬之, 森 敦紀 化学
と教育, 50巻, 3号, 198-200 (2002) .

- 21 日本の高校生も世界に――化学オリンピックへ挑戦 渡辺 正・森 敦紀 数学セミナー別冊 ガリレオ・サイエンスシリーズ No. 1, 173-177 (2002).
- 22 別冊化学「化学オリンピックへ行こう！」化学同人
森 敦紀他, 2003
- 23 シアノ基の不飽和結合への付加, 檜山爲次郎・野崎京子編「有機合成における触媒反応」東京化学同人, 森 敦紀, 124-125 (2004)
- 24 クロスカップリング： sp^2 - sp^2 結合形成, 檜山爲次郎・野崎京子編「有機合成における触媒反応」東京化学同人, 森 敦紀, 138-139 (2004).
- 25 菌頭-萩原反応, 檜山爲次郎・野崎京子編「有機合成における触媒反応」東京化学同人, 森 敦紀, 140-141 (2004).
- 26 実用的アルキンのカップリング法 森 敦紀 有機合成化学協会誌, 62 巻, 4 号, 355-362 (2004).
- 27 十字路「塩化アリールの菌頭-萩原カップリング」 森 敦紀 有機合成化学協会誌, 62 巻, 4 号, 363 (2004).
- 28 速報 第36回国際化学オリンピック 全員が金銅受賞！ 森 敦紀 化学と教育 52 巻, 9 号, 576-577 (2004).
- 29 プロフェッショナル英和辞典 スペッドテラ 物質・工学編 小学館 (分担執筆) 2004.
- 30 コラム化学会発「参加2回目にして初の金メダル！日本代表全員がメダル受賞ー第36回国際化学オリンピック報告 森 敦紀 化学と工業 57 巻, 10 号, 1085-1086 (2004).

- 31 液晶材料合成に使えるような有機合成 森 敦紀, 液晶, 9 巻, 1 号, 22-30 (2005).
- 32 末端アルキン, ヘテロ芳香族化合物の C-H 結合置換カップリング反応, 森 敦紀, オルガノメタリックニュース (近畿化学協会), 35 巻, 2 号, 42-46 (2005).
- 33 Cross coupling polymerization, Comprehensive Organometallic Chemistry 3. Wiley, in press.

特許

- 1 不斉誘起触媒 特許出願平4-48436, 出願日1992年3月5日
特許公開平5-11163, 公開日 1993年5月7日
森 敦紀, 井上祥平, 出願人 住友化学工業株式会社
- 2 不斉誘起触媒 特許出願平4-62249, 出願日 1992年3月18日,
公開番号: 特許公開平5-261295, 公開日:1993年10月12日
森 敦紀, 井上祥平, 出願人 住友化学工業株式会社
- 3 2-フルオロ-1-オール類の製造方法, 特許出願平11-145420 出願
日 1999年5月25日 公開番号: 特許公開2000-327605 公開
日: 2000年11月28日
上代 洋, 西原康師, 森 敦紀, 檜山爲次郎, 出願人 新日鐵化学株式会社
- 4 カップリング反応に用いる触媒系 特許出願2001-130953 出願日
2001年4月27日 特許公開2002-320859 公開日 2002年
11月5日
発明者 森 敦紀 出願人: 財団法人 理工学振興会
- 5 アルキニルケトンの製造方法, および触媒系 特許出願 2003-185451, 2003/06/27
発明者 森 敦紀, Mohamed S. Mohamed Ahmed 出願人: 財団法人 理工学振興会
- 6 複素環化合物の製造方法、および触媒系 特許出願 2004-29784, 2004/02/05
発明者 森 敦紀, 増井建太郎 出願人: 財団法人 理工学振興会

卒業論文題目

コハク酸エステル誘導体を用いる新アネレーション反応 (A new annelation reaction using succinate ester derivatives.)

修士論文題目

有機金属化合物を用いる不斉合成反応の開発 (A development of asymmetric reaction using organometallic compounds.)

博士論文題目

Asymmetric synthesis using homochiral acetal. (ホモキラルアセタールを用いる不斉合成)