

Publication List (2018-7-12)

Original Papers

- (1) Catalytic Asymmetric Sulfimination of 1,3-Dithianes
Yoshihiro Miyake, Hiroya Takada, Kouichi Ohe, Sakae Uemura*
J. Chem. Soc., Perkin Trans. 1 **1998**, 2373-2376.
- (2) Catalytic Asymmetric Imidation of Selenides into Selenimides
Hiroya Takada, Masamitsu Oda, Yoshihiro Miyake, Kouichi Ohe, Sakae Uemura*
Chem. Commun. **1998**, 1557-1558.
- (3) Nickel(0)-Catalyzed Asymmetric Cross-Coupling Reaction of Allylic Compounds with Arylboronic Acids
Kang-Go Chung, Yoshihiro Miyake, Sakae Uemura*
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- (4) Enantioselective Conversion of *meso*-Cyclic Disulfides to Chiral Cyclic Sulfides via Desulfurization with Chiral Aminophosphines
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- (5) Nickel(0)-Catalyzed Asymmetric Cross-Coupling Reactions of Allylic Compounds with Grignard Reagents Using Optically Active Oxazolinylferrocenylphosphines as Ligands
Kang-Go Chung, Yoshihiro Miyake, Sakae Uemura*
J. Chem. Soc., Perkin Trans. 1 **2000**, 2725-2729.
- (6) Asymmetric Imidation of Organic Selenides into Selenimides
Yoshihiro Miyake, Masamitsu Oda, Arihiro Oyamada, Hiroya Takada, Kouichi Ohe, Sakae Uemura*
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- (7) Kinetic Resolution of Secondary Alcohols via Chiral Pd(II)-Complex-Catalysed Enantioselective Benzoylation using CO and Organobismuth(V) Compound
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- (8) Asymmetric Synthesis of Epoxides from Aromatic Aldehydes and Benzyl Halides Catalyzed by C_2 Symmetric Optically Active Sulfides Having a Binaphthyl Skeleton
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Heteroatom Chem. **2002**, 13, 270-275.
- (9) Palladium(II) Complex-Catalysed Enantioselective Benzoylation of Alcohols Using Carbon Monoxide and Organobismuth(V) Compounds
Tomochika Iwata, Yoshihiro Miyake, Yoshiaki Nishibayashi, Sakae Uemura*
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- (10) Asymmetric Baeyer-Villiger Oxidation of Cyclic Ketones Using Chiral Organoselenium Catalysts
Yoshihiro Miyake, Yoshiaki Nishibayashi, Sakae Uemura*
Bull. Chem. Soc. Jpn. **2002**, 75, 2233-2237.
- (11) Kinetic Resolution of Racemic Ferrocenylphosphine Compounds by Enantioselective Oxidation Using Cyclic Selenoxides Having a Chiral Ligand
Yoshihiro Miyake, Akiyoshi Yamauchi, Yoshiaki Nishibayashi, Sakae Uemura*
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- (12) Enantioface-Selective Palladium-Catalyzed Silaboration of Allenes via Double Asymmetric Induction
Michinori Suginome*, Toshimichi Ohmura, Yoshihiro Miyake, Shin'ichirou Mitani, Yoshihiko Ito, Masahiro Murakami*
J. Am. Chem. Soc. **2003**, 125, 11174-11175.
- (13) Anomalous Ring Cleavage of 1,3-Dithiole- and 1,3-Diselenole-2-thiones under the Cross-Coupling Conditions Using Triethyl Phosphite
Masahiko Iyoda*, Ryoji Watanabe, Yoshihiro Miyake
Chem. Lett. **2004**, 33, 570-571.
- (14) Copper-Mediated Simple and Efficient Synthesis of Tribenzohexadehydro[12]annulene and Its Derivatives
Masahiko Iyoda*, Siriwan Sirinintasak, Toshihiro Nishiyama, Anusorn Vorasingha, Fatema Sultana, Kazumi Nakao, Yoshiyuki Kuwatani, Haruo Matsuyama, Masato Yoshida, and Yoshihiro Miyake
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- (16) Novel Electron-transfer Oxidation of Lipshutz Cuprates with 1,4-Benzoquinones: An Efficient Homo-coupling Reaction of Aryl Halides and Its Application to the Construction of Macrocyclic Systems
Yoshihiro Miyake, Mo Wu, M. Jalilur Rahman, Masahiko Iyoda*
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- (17) Bis(ethylenedioxy)-1,4,5,8-tetraselenanaphthalene: The First Example of Tetraselenanaphthalene
Ryoji Watanabe, Yoshihiro Miyake, Yoshiyuki Kuwatani, Masahiko Iyoda*
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- (18) Synthesis of Nonaphenylenes and Dodecaphenylenes Using Electron-transfer Oxidation of Lipshutz Cuprate Intermediates
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- (20) Selective Hydrosilylation of 1-Alkynes Using Iridium Catalyst with Biphosphinine Ligand
Yoshihiro Miyake, Eigo Isomura, Masahiko Iyoda*
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Yoshihiro Miyake, Mo Wu, M. Jalilur Rahman, Yoshiyuki Kuwatani, Masahiko Iyoda*
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- (22) Ruthenium-Catalyzed Sequential Reactions: Deracemization of Secondary Benzylic Alcohols
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- (23) Ruthenium-Catalyzed Reaction of 1-Cyclopropyl-2-propyn-1-ols with Anilines and Water via Allenylidene Intermediates: Selective Preparation of Tri- and Tetrasubstituted Conjugated Enynes
Yoshihiro Yamauchi, Gen Onodera, Ken Sakata, Masahiro Yuki, Yoshihiro Miyake, Sakae Uemura, Yoshiaki Nishibayashi*
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- (24) Synthesis and Reactivity of Diphosphine-Bridged Diruthenium Complexes
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- (25) Ruthenium-Catalyzed Enantioselective Propargylation of Aromatic Compounds with Propargylic Alcohols via Allenylidene Intermediates
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- (26) Design and Preparation of Chiral Ligand Based on a Pseudorotaxane Skeleton: Application to Rhodium-Catalyzed Enantioselective Hydrogenation of Enamides
Gaku Hattori, Tetsuharu Hori, Yoshihiro Miyake, Yoshiaki Nishibayashi*
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- (27) Remarkable Effect of *N*-Substituent on Enantioselective Ruthenium-Catalyzed Propargylation of Indoles with Propargylic Alcohols
Hiroshi Matsuzawa, Keiichiro Kanao, Yoshihiro Miyake, Yoshiaki Nishibayashi*

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- (28) Ruthenium-Catalyzed Vinylic Substitution Reactions with Nucleophiles via Butatrienylidene Intermediates
Yoshihiro Yamauchi, Masahiro Yuki, Yoshiaki Tanabe, Yoshihiro Miyake, Youichi Inada, Sakae Uemura, Yoshiaki Nishibayashi*
J. Am. Chem. Soc. **2008**, 130, 2908-2909. (Highlighted in *Synfacts*, **2008**, 105)
- (29) Ruthenium-Catalyzed Dienyne Formation from Propargylic Alcohols and 1,3-Conjugated Dienes
Masaki Daini, Masato Yoshikawa, Youichi Inada, Sakae Uemura, Ken Sakata, Keiichiro Kanao, Yoshihiro Miyake, Yoshiaki Nishibayashi*
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- (30) Copper-Catalyzed Asymmetric Propargylic Substitution Reactions of Propargylic Acetates with Amines
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Yukito Yada, Yoshihiro Miyake, Yoshiaki Nishibayashi*
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- (32) Synthesis and Reactivity of Tungsten- and Molybdenum-Dinitrogen Complexes Bearing Ferrocenyldiphosphines
Masahiro Yuki, Yoshihiro Miyake, Yoshiaki Nishibayashi*, Issei Wakiji, Masanobu Hidai
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Yoshihiro Miyake, Satoshi Endo, Yohei Nomaguchi, Masahiro Yuki, Yoshiaki Nishibayashi*
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- (34) Synthesis of Optically Active *N,N,N',N'*-Tetraphenyl-1,1'-binaphthyl-2,2'-diamine Derivatives as Analogues of BINAP
Hiroshi Matsuzawa, Yoshiaki Tanabe, Yoshihiro Miyake, Yoshiaki Nishibayashi*
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- (35) Ruthenium-Catalyzed Enantioselective Carbon-Carbon Bond Forming Reaction via Allenylidene-Ene Process: Synthetic Approach to Chiral Heterocycles such as Chromane, Thiochromane and 1,2,3,4-Tetrahydroquinoline Derivatives
Koji Fukamizu, Yoshihiro Miyake, Yoshiaki Nishibayashi*
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- (36) Synthesis and Reactivity of Hybrid Phosphido- and Thiolato-Bridged Diruthenium Complexes

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 Yoshihiro Miyake, Sayaka Watanabe, Satoshi Aono, Tohru Nishinaga*, Akira Miyazaki, Toshiaki Enoki, Hitoshi Miyasaka, Hiroyuki Otani, Masahiko Iyoda*
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- (38) A DFT Study on the Reaction Pathways for Carbon–Carbon Bond Forming Reactions between Propargylic Alcohols and Alkenes or Ketones Catalyzed by Thiolate-Bridged Diruthenium Complexes
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- (40) Remarkable Effect of Halogens on Catalytic Activities of Thiolato-Bridged Diruthenium Complexes in Propargylic Substitution Reactions
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- (41) Catalytic Isomerization of 1,5-Enynes to 1,3-Cyclohexadienes via Ruthenium Vinylidene Intermediates
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Angew. Chem. Int. Ed. **2009**, 48, 2534-2537.
- (42) Ruthenium-Catalyzed Enantioselective Intramolecular Propargylation of Thiophenes with Propargylic Alcohols
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- (43) Synthesis and Protonolysis of Tungsten- and Molybdenum-Dinitrogen Complexes Bearing Ruthenocenylidiphosphines
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Allenylidene Intermediates: Efficient Approach to Chiral β -Amino Alcohols

Gaku Hattori, Akiko Yoshida, Yoshihiro Miyake, Yoshiaki Nishibayashi*

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- (46) Synthesis and Protonolysis of Tungsten- and Molybdenum-Dinitrogen Complexes Bearing Bis(dialkylphosphinobenzene)chromiums as Auxiliary Ligands

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Organometallics **2009**, 28, 5821-5827.

- (47) Copper-Catalyzed Diastereo- and Enantio-selective Sequential Reactions Propargylic Acetates with (*E*)-2,4-Pentadienylamine

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- (48) Structural, Electronic and Magnetic Properties of Cu(II) Complexes of 2-Substituted Tropones Bearing a Ferrocenyl group at 5-Position

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- (53) Preparation and Reactivity of a Ruthenium Complex Bearing a 2,6-Bis(trimethylsilyl)benzenethiolate Ligand

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- (59) Synthesis of Group IV (Zr, Hf)–Group VIII (Fe, Ru) Heterobimetallic Complexes Bearing Metallocenyl Diphosphine Moieties and Their Application to Catalytic Dehydrogenation of Amine-Boranes
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- (62) Remarkable Effect of Valence Electrons in Thiolato-Bridged Diruthenium Complexes toward Catalytic Dimerization of α -Methylstyrenes
Yoshihiro Miyake, Taichi Moriyama, Yoshiaki Tanabe, Gen Onodera, Yoshiaki Nishibayashi*
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- (64) Visible-Light-Mediated Utilization of α -Aminoalkyl Radicals: Addition to Electron Deficient Alkenes Using Photoredox Catalysts
Yoshihiro Miyake, Kazunari Nakajima, Yoshiaki Nishibayashi*
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- (65) Synthesis and Protonation of Molybdenum- and Tungsten-Dinitrogen Complexes Bearing PNP-Type Pincer Ligands
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- (67) Ruthenium- and Copper-Catalyzed Enantioselective Propargylic Alkylation of Propargylic Alcohols with β -Keto Phosphonates
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- (69) Cooperative Catalytic Reactions Using Organocatalysts and Transition Metal Catalysts: Propargylic Allylation of Propargylic Alcohols with α,β -Unsaturated Aldehydes
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- (70) Visible-Light-Mediated Addition of α -Aminoalkyl Radicals Generated from α -Silylamines to α,β -Unsaturated Carbonyl Compounds

Yoshihiro Miyake, Yuya Ashida, Kazunari Nakajima, Yoshiaki Nishibayashi*

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- (71) Enantioselective Alkylation of β -Keto Phosphonates by Direct Use of Diaryl Methanols as Electrophiles

Masashi Shibata, Masahiro Ikeda, Kazuki Motoyama, Yoshihiro Miyake, Yoshiaki Nishibayashi*

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- (72) Copper-Catalyzed Nucleophilic Trifluoromethylation of Allylic Halides: Simple Approach to Allylic Trifluoromethylation

Yoshihiro Miyake, Shin-ichi Ota, Yoshiaki Nishibayashi*

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- (74) Iron-Catalyzed Transformation of Molecular Dinitrogen into Silylamine Under Ambient Conditions

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- (75) Synthesis and Catalytic Activity of Molybdenum-Dinitrogen Complexes Bearing Unsymmetric PNP-Type Pincer Ligands

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- (76) Ruthenium-Triggered Ring-Opening of Ethynylcyclopropanes: [3+2] Cycloaddition with Aldehydes and Aldimines Involving Metal-Allenylidene Intermediates

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Takamasa Miyazaki, Yoshiaki Tanabe, Masahiro Yuki, Yoshihiro Miyake, Yoshiaki Nishibayashi*

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- (78) Copper-Catalyzed Nucleophilic Trifluoromethylation of Propargylic Halides

Yoshihiro Miyake, Shin-ichi Ota, Masashi Shibata, Kazunari Nakajima, Yoshiaki Nishibayashi*

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- (79) Visible Light-Mediated Oxidative Decarboxylation of Arylacetic Acids into Benzyl Radicals: Addition to Electron-Deficient Alkenes by Using Photoredox Catalysts
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- (81) Preparation and Reactivity of Molybdenum-Dinitrogen Complexes Bearing Arsenic-Containing ANA-type Pincer Ligand
Yoshiaki Tanabe, Shogo Kuriyama, Kazuya Arashiba, Yoshihiro Miyake, Kazunari Nakajima, Yoshiaki Nishibayashi*
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- (83) Copper-Catalyzed Nucleophilic Trifluoromethylation of Benzylic Chlorides
Yoshihiro Miyake, Shin-ichi Ota, Masashi Shibata, Kazunari Nakajima, Yoshiaki Nishibayashi*
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- (87) Diversity-Oriented Synthesis of Tetrathia[8]circulenes by Sequential C–H Borylation and Annulation
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