

*Part 1: Original Papers**Part 2: Accounts, Reviews, and Book Chapters in English**Part 1: Original Papers*

182. Iridium-Catalyzed C(sp³)-H Addition of Methyl Ethers across Intramolecular Carbon-Carbon Double Bonds Giving 2,3-Dihydrobenzofurans
Ohmura, T.; Kusaka, S.; Torigoe, T.; Suginome, M., *Adv. Cat.*, accepted (VIP).
181. Boryl-directed, Ir-catalyzed C(sp³)-H Borylation of Alkylboronic Acids Leading to Site-selective Synthesis of Polyborylalkanes
Yamamoto, T.; Ishibashi, A.; Suginome, M., *Org. Lett.* **2019**, ASAP. [DOI: 10.1021/acs.orglett.9b02112]
180. Asymmetric Catalysis in Chiral Solvents: Transfer, Amplification, and Memory of Chirality Enabled by Macromolecular Scaffold
Nagata, Y.; Takeda, R.; Suginome, M., *ACS Central Science* **2019**, *5*, 1235-1240. [DOI: 10.1021/acscentsci.9b00330]
179. Pyridine-based Catalysts for Organocatalytic Regioselective *syn*-1,2-Silaboration of Terminal Alkynes and Allenes
Morimasa, Y.; Kabasawa, K.; Ohmura, T.; Suginome, M., *Asian J. Org. Chem* **2019**, *8*, 1092-1096. [DOI: 10.1002/ajoc.201900176R1]
178. Lyotropic Liquid Crystallinity of Linear and Star Poly(quinoxaline-2,3-diyl)s: Isotropic-Liquid Crystal Phase Equilibria in Tetrahydrofuran
Hasegawa, H.; Terao, K.; Sato, T.; Nagata, Y.; Suginome, M., *Macromolecules* **2019**, *52*, 3158-3164. [DOI: 10.1021/acs.macromol.9b00460]
177. Telechelic Helical Poly(quinoxaline-2,3-diyl)s Containing Structurally-defined, Circularly Polarized Luminescent Terquinoxaline Core at the Center: Synthesis by Core-Initiated Bidirectional Living Polymerization
Kuriyama, S.; Nagata, Y.; Suginome, M., *ACS Macro Lett.* **2019**, *8*, 479-485. [DOI: 10.1021/acsmacrolett.9b00165]
176. Catalytic Generation of Rhodium Silylenoid for Alkene-Alkyne-Silylene [2+2+1] Cycloaddition
Ohmura, T.; Sasaki, I.; Suginome, M., *Org. Lett.* **2019**, *21*, 1649-1653. [DOI: 10.1021/acs.orglett.9b00326]
175. Helical Poly(quinoxaline-2,3-diyl)s Bearing 1,2,3-Triazole Pendants: Synthesis by CuAAC, Luminescence Properties, and Use as Reusable Abnormal NHC Ligands in Gold Catalysis
Zhang, P.; Yamamoto, T.; Suginome, M., *ChemCatChem* **2019**, *11*, 424-429. [DOI: 10.1002/cctc.201801361]

174. A Bidirectional Screw-sense Induction of Poly(quinoxaline-2,3-diyl)s that Depends on the Degree of Polymerization
Nagata, Y.; Nishikawa, T.; Terao, K.; Hasegawa, H.; Suginome, M., *J. Polym. Sci. Part A: Polym. Chem.* **2019**, *57*, 260-263. [DOI: [10.1002/pola.29224](https://doi.org/10.1002/pola.29224)]
173. A Planar-Chiral Pillar[5]arene-based Monophosphine Ligand with Induced Chirality at the Biaryl Axis
Nagata, Y.; Shimada, Y.; Nishikawa, T.; Takeda, R.; Uno, M.; Ogoshi, T.; Suginome, M., *Synlett* **2018**, *29*, 2167-2170. [DOI: [19.1055/s-0037-1610635](https://doi.org/10.1055/s-0037-1610635)]
172. Enantiospecific Suzuki-Miyaura Coupling of Nonbenzylic α -(Acylamino)alkylboronic Acid Derivatives
Ohmura, T.; Miwa, K.; Awano, T.; Suginome, M., *Chem. Asian J.* **2018**, *13*, 2414-2417. [DOI: [10.1002/asia.201800536](https://doi.org/10.1002/asia.201800536)]
171. Abnormal Sergeants-and-Soldiers Effect of Poly(quinoxaline-2,3-diyl)s Enabling Discrimination of One-Carbon Homologous *n*-Alkanes through a Highly Sensitive Solvent-dependent Helix Inversion
Nagata, Y.; Nishikawa, T.; Suginome, M., *Chem. Commun.* **2018**, *54*, 6867. [DOI: [10.1039/C8CC02836B](https://doi.org/10.1039/C8CC02836B)]
170. Chirality-Amplifying, Dynamic Induction of Single-handed Helix by Chiral Guests to Macromolecular Chiral Catalysts Bearing Boronyl Pendants as Receptor Sites
Yamamoto, T.; Murakami, R.; Komatsu, S.; Suginome, M., *J. Am. Chem. Soc.* **2018**, *140*, 3867-3870. [DOI: [10.1021/jacs.8b00529](https://doi.org/10.1021/jacs.8b00529)]
169. Elucidating the Solvent Effect on the Switch of the Helicity of Poly(quinoxaline-2,3-diyl)s: A Conformational Analysis by Small-Angle Neutron Scattering
Nagata, Y.; Nishikawa, T.; Suginome, M.; Sato, S.; Sugiyama, M.; Porcar, L.; Anne, M.; Inoue, R.; Sato, N., *J. Am. Chem. Soc.* **2018**, *140*, 2722-2726. [DOI: [10.1021/jacs.7b11626](https://doi.org/10.1021/jacs.7b11626)]
168. Palladium-Catalyzed β -Elimination of Aminoboranes from (Aminomethylsilyl)boranes Leading to the Formation of Silene Dimers
Ohmura, T.; Nishiura, H.; Suginome, M., *Organometallics* **2017**, *36*, 4298-4304. [DOI: [10.1021/acs.organomet.7b00695](https://doi.org/10.1021/acs.organomet.7b00695)]
167. 4,4'-Bipyridine-Catalyzed Stereoselective *trans*-Diboration of Acetylenedicarboxylates Giving 2,3-Diborylfumarates
Ohmura, T.; Morimasa, Y.; Suginome, M., *Chem. Lett.* **2017**, *46*, 1793-1796. [DOI: [10.1246/cl.170848](https://doi.org/10.1246/cl.170848)]
166. Synthesis and Solution Properties of a Rigid Helical Star Polymer: Three-arm Star Poly(quinoxaline-2,3-diyl)s
Hasegawa, H.; Nagata, Y.; Terao, K.; Suginome, M., *Macromolecules* **2017**, *50*, 7491-7497. [DOI: [10.1021/acs.macromol.7b01797](https://doi.org/10.1021/acs.macromol.7b01797)]

165. Asymmetric Cycloisomerization of *o*-Alkenyl-*N*-methylanilines to Indolines through Iridium-Catalyzed C(sp³)-H Addition to Carbon-Carbon Double Bonds
Torigoe, T.; Ohmura, T.; Suginome, M., *Angew. Chem. Int. Ed.* **2017**, *56*, 14272-14276. [DOI: [10.1002/anie.201708578](https://doi.org/10.1002/anie.201708578)]
164. Chirality-switchable 2,2'-Bipyridine Ligands Attached to Helical Poly(quinoxaline-2,3-diyl)s for Copper-Catalyzed Asymmetric Cyclopropanation of Alkenes
Yoshinaga, Y.; Yamamoto, T.; Suginome, M., *ACS Macro Lett.*, **2017**, *6*, 705-710. [DOI: [10.1021/acsmacrolett.7b00352](https://doi.org/10.1021/acsmacrolett.7b00352)]
163. Rhodium-Catalyzed Directed C(sp²)-H Addition of Arylboronic Acids to Arylpropiolates Using a Boron-based, Convertible *ortho*-Directing Group
Yamamoto, T.; Ishibashi, A.; Suginome, M., *Chem. Lett.* **2017**, *46*, 1169-1172. [DOI: [10.1246/cl.170404](https://doi.org/10.1246/cl.170404)]
162. Synthesis and Catalytic Applications of a Triptycene-Based Monophosphine Ligand for Palladium-Mediated Organic Transformations
Leung, F. K.-C.; Ishiwari, F.; Shoji, Y.; Nishikawa, T.; Takeda, R.; Nagata, Y.; Suginome, M.; Uozumi, Y.; Yamada, Y.; Fukushima, T., *ACS Omega.* **2017**, *2*, 1930-1937. [DOI: [10.1021/acsomega.7b00200](https://doi.org/10.1021/acsomega.7b00200)]
161. Poly(quinoxaline-2,3-diyl) as a Multifunctional Chiral Scaffold for Circularly Polarized Luminescent Materials: Color Tuning, Energy Transfer, and Switching of the CPL Handedness
Nishikawa, T.; Nagata, Y.; Suginome, M., *ACS Macro Lett.* **2017**, *6*, 431-435. [DOI: [10.1021/acsmacrolett.7b00131](https://doi.org/10.1021/acsmacrolett.7b00131)]
160. Utilization of a Trimethylsilyl Group as a Synthetic Equivalent of a Hydroxyl Group via Chemoselective C(sp³)-H Borylation at the Methyl Group on Silicon
Torigoe, T.; Ohmura, T.; Suginome, M., *J. Org. Chem.* **2017**, *82*, 2943-2956. [DOI: [10.1021/acs.joc6b02917](https://doi.org/10.1021/acs.joc6b02917)]
159. C-H Activation-Based Transformation of Naphthalenes to 3-Iodo-2-Naphthylboronic Acid Derivatives for Use in Iterative Coupling Synthesis of Oligo(naphthalene-2,3-diyl)s
Yamamoto, T.; Ishibashi, A.; Koyanagi, M.; Ihara, H.; Eichenauer, N.; Suginome, M., *Bull. Chem. Soc. Jpn.* **2017**, *90*, 604-606. [DOI: [10.1246/bcsj.20170026](https://doi.org/10.1246/bcsj.20170026)]
158. Single-Handed Helical Poly(quinoxaline-2,3-diyl)s Bearing Achiral 4-Aminopyrid-3-yl Pendants as Highly Enantioselective, Reusable Chiral Nucleophilic Organocatalysts in the Steglich Reaction
Yamamoto, T.; Murakami, R.; Suginome, M., *J. Am. Chem. Soc.* **2017**, *139*, 2557-2560. [DOI: [10.1021/jacs.6b12349](https://doi.org/10.1021/jacs.6b12349)]
157. Regioselective Synthesis of *o*-Benzenediboronic Acids via Ir-catalyzed *o*-C-H Borylation Directed by a Pyrazolylaniline-Modified Boronyl Group
Yamamoto, T.; Ishibashi, A.; Suginome, M., *Org. Lett.* **2017**, *19*, 886-889. [DOI: [10.1021/acs.orglett.7b00041](https://doi.org/10.1021/acs.orglett.7b00041)]

156. High-Pressure Circular Dichroism Spectroscopy up to 400 MPa Using Polycrystalline Yttrium Aluminum Garnet (YAG) as Pressure-Resistant Optical Windows
Nagata, Y.; Takeda, R.; Suginome, M., *RSC Adv.* **2016**, *6*, 109726-109729. [DOI: 10.1039/C6RA23736C]
155. A (Borylmethyl)silane Bearing Three Hydrolyzable Groups on Silicon: Synthesis via Iridium-Catalyzed C(sp³)-H Borylation and Conversion to Functionalized Siloxanes
Ohmura, T.; Sasaki, I.; Torigoe, T.; Suginome, M., *Organometallics* **2016**, *35*, 1601-1603. [DOI: 10.1021/acs.organomet.6b00316]
154. Three-Way Switchable (Right/Left/OFF) Selective Reflection of Circular Polarized Light on Solid Thin Films of Helical Polymer Blends
Nagata, Y.; Uno, M.; Suginome, M., *Angew. Chem., Int. Ed.* **2016**, *55*, 7126-7130. [DOI: 10.1002/anie.201602035]
153. Iridium-Catalyzed Intramolecular Methoxy C–H Addition to Carbon–Carbon Triple Bond: Direct Synthesis of 3-Substituted Benzofurans from *o*-Methoxyphenylalkynes
Torigoe, T.; Ohmura, T.; Suginome, M., *Chem. Eur. J.* **2016**, *22*, 10415-10419. [DOI: 10.1002/chem.201602152]
152. Solvent Effect on the Sergeants-and-Soldiers Effect Leading to Bidirectional Induction of Single-Handed Helical Sense of Poly(quinoxaline-2,3-diyl)s Copolymers in Aromatic Solvents
Nagata, Y.; Nishikawa, T.; Suginome, M., *ACS Macro Lett.* **2016**, *5*, 519-522. [DOI: 10.1021/acsmacrolett.6b00191]
151. Main-Chain Stiffness and Helical Conformation of a Poly(quinoxaline-2,3-diyl)s evaluated by SEC-MALS-VISCO and SAXS in Dilute Solution
Nagata, Y.; Hasegawa, H.; Terao, K.; Suginome, M., *Macromolecules* **2015**, *48*, 7983-7989. [DOI: 10.1021/acs.macromol.5b01919]
150. Pressure-Dependent Helix Inversion of Poly(quinoxaline-2,3-diyl)s Containing Chiral Side Chains in Non-aqueous Solvents
Nagata, Y.; Takeda, R.; Suginome, M., *Chem. Commun.* **2015**, *51*, 11182-11185. [DOI: 10.1039/C5CC04255K]
149. Site- and Regioselective Silaborative C–C Cleavage of 1-Alkyl-2-methylenecyclopropanes Using a Platinum Catalyst with a Sterically Demanding Silylboronic Ester
Ohmura, T.; Taniguchi, H.; Suginome, M., *ACS Catal.* **2015**, *5*, 3074-3077. [DOI: 10.1021/acscatal.5b00513]
148. Majority-Rule-Type Poly(quinoxaline-2,3-diyl)s as Highly Efficient Chiral Amplification System for Asymmetric Catalysis
Ke, Y.-Z.; Nagata, Y.; Yamada, T.; Suginome, M., *Angew Chem., Int. Ed.* **2015**, *54*, 9333-9337.

147. Exerting Control over the Helical Chirality in the Main-Chain of Segeants-and-Soldiers-Type Poly(quinoxaline-2,3-diyl)s by Changing from Random to Block Copolymerization Protocols
Nagata, Y.; Nishikawa, T.; Suginome, M., *J. Am. Chem. Soc.* **2015**, *137*, 4070-4073. [DOI: [10.1021/jacs.5b01422](https://doi.org/10.1021/jacs.5b01422)]
146. Organocatalytic Diboration Involving "Reductive Addition" of a Boron–Boron σ -Bond to 4,4'-Bipyridine
Ohmura, T.; Morimasa, Y.; Suginome, M., *J. Am. Chem. Soc.* **2015**, *137*, 2852-2855. [DOI: [10.1021/jacs.5b00546](https://doi.org/10.1021/jacs.5b00546)] (JACS Spotlights [10.1021/jacs.5b02133](https://doi.org/10.1021/jacs.5b02133))
145. Asymmetric Suzuki-Miyaura Cross-Coupling of 1-Bromo-2-naphtoates Using the Helically Chiral Polymer Ligand PQXphos
Akai, Y.; Konnert, L.; Yamamoto, T.; Suginome, M., *Chem. Commun.* **2015**, *51*, 7211-7214. [DOI: [10.1039/C5CC01074H](https://doi.org/10.1039/C5CC01074H)]
144. Facile Preparation of Poly(quinoxaline-2,3-diyl)s via Aromatizing Polymerization of 1,2-Diisocyanobenenes Using Phosphine Complexes of Nickel(II) Salts
Nagata, Y.; Ke, Y.-Z.; Suginome, M., *Chem. Lett.*, **2015**, *44*, 53-55. [DOI: [10.1246/cl.140909](https://doi.org/10.1246/cl.140909)]
143. Poly(quinoxaline-2,3-diyl)s Bearing (S)-3-Octyloxymethyl Side Chains as an Efficient Amplifier of Alkane Solvent Effect Leading to Switch of Main Chain Helical Chirality
Nagata, Y.; Nishikawa, T.; Suginome, M., *J. Am. Chem. Soc.*, **2014**, *136*, 15901-15904. [DOI: [10.1021/ja509531t](https://doi.org/10.1021/ja509531t)] (JACS Spotlights [10.1021/ja511738n](https://doi.org/10.1021/ja511738n))
142. Chiral Palladacycle Catalysts Generated on a Single-handed Helical Polymer Skeleton for Asymmetric Arylative Ring Opening of 1,4-Epoxy-1,4-Dihydronaphthalene
Yamamoto, T.; Akai, Y.; Suginome, M., *Angew. Chem. Int. Ed.* **2014**, *53*, 12785-12788. [DOI: [10.1002/anie.201407358](https://doi.org/10.1002/anie.201407358)]
141. Ether Solvent-Induced Chirality Inversion of Helical Poly(quinoxaline-2,3-diyl)s Containing L-Lactic Acid Derived Side Chains
Nagata, Y.; Kuroda, T.; Takagi, K.; Suginome, M., *Chem. Sci.* **2014**, *5*, 4953-4956. [DOI: [10.1039/C4SC01920B](https://doi.org/10.1039/C4SC01920B)]
140. Chirality-Switchable Circularly Polarized Luminescence in Solution Based on Solvent-dependent Inversion of Helical Chirality of Poly(quinoxaline-2,3-diyl)s
Nagata, Y.; Nishikawa, T.; Suginome, M., *Chem. Commun.* **2014**, *50*, 9951-9953. [DOI: [10.1039/C4CC03944K](https://doi.org/10.1039/C4CC03944K)]
139. Solid Polymer Films Exhibiting Handedness-switchable, Full-color-tunable Selective Reflection of Circularly Polarized Light
Nagata, Y.; Takagi, K.; Suginome, M., *J. Am. Chem. Soc.* **2014**, *136*, 9858-9861. [DOI: [10.1021/ja504808r](https://doi.org/10.1021/ja504808r)] (JACS Spotlights [10.1021/ja506476x](https://doi.org/10.1021/ja506476x))
138. Iridium-Catalyzed Borylation of Sterically Hindered C(sp³)-H Bonds: Remarkable Rate Acceleration by the Catalytic Amount of Potassium *tert*-Butoxide

- Ohmura, T.; Torigoe, T.; Suginome, M., *Chem. Commun.* **2014**, *50*, 6333-6336. [DOI: 10.1039/C4CC01262C]
137. Functionalization of Tetraorganosilanes and Permethyloligosilanes at a Methyl Group on Silicon via Iridium-Catalyzed C(sp³)-H Borylation
Ohmura, T.; Torigoe, T.; Suginome, M.* *Organometallics*, **2013**, *32*, 6170-6173. [DOI: 10.1021/om400138u]
136. Nickel-Catalyzed Cyclizative *trans*-Carboboration of Alkynes through Activation of B-Cl Bonds Using Organometallic Reagents as a Donor of Organic groups
Daini, M.; Yamamoto, A.; Suginome, M.* *Asian. J. Org. Chem.* **2013**, *2*, 968-976. [DOI: 10.1002/ajoc.201300164] (Special issue: 40 years of the Mukaiyama Aldol Reaction)
135. Complementary Induction of Right- and Left-handed Helical Structures by Positioning of Chiral groups on the Monomer Units: Introduction of (-)-Menthol as Side Chains of Poly(quinoxaline-2,3-diyl)s
Yamamoto, T.; Adachi, T.; Suginome, M., *ACS Macro Lett.* **2013**, *2* (9), 790-793. [DOI: 10.1021/mz4003326]
134. Solvent-Dependent Switch of Helical Main-Chain Chirality in Sergeants-and-Soldiers-type Poly(quinoxaline-2,3-diyl)s: Effect of the Position and Structures of the "Sergeant" Chiral Units on the Screw-Sense Induction
Nagata, Y.; Yamada, T.; Adachi, T.; Akai, Y.; Yamamoto, T.; Suginome, M., *J. Am. Chem. Soc.* **2013**, *135*, 10104-10113. [DOI: 10.1021/ja403391m]
133. Anthranilamide-Masked *o*-Iodoarylboronic Acids as Coupling Modules for Iterative Synthesis of *ortho*-Linked Oligoarenes
Koyanagi, M.; Eischenauer, N.; Ihara, H.; Yamamoto, T.; Suginome, M., *Chem. Lett.* **2013**, *42*, 541-543. [DOI: 10.1246/cl.2013.541]
132. Synthesis of Cyclic Alkenylborates via Silaboration of Alkynes Followed by Hydrolysis for Utilization in External-Base-Free Cross Coupling
Ohmura, T.; Ohshima, K.; Suginome, M., *Organometallics* **2013**, *32*, 2870-2873.
131. Palladium-catalyzed Carboboration: Borylative Coupling of Alkynes with Alkenes through Activation of Boron-Chlorine Bonds
Nakada, K.; Daini, M.; Suginome, M., *Chem. Lett.* **2013**, *42*, 538-540. [DOI: 10.1246/cl.2013.538]
130. Cycloaddition-based C-H Alkynylation of Isoindoles Leading to the Synthesis of Fluorescent 1,3-Dialkynylisoindoles
Ohmura, T.; Kijima, A.; Komori, Y.; Suginome, M., *Org. Lett.* **2013**, *15*, 3510-3513.
129. Solvent-dependent fluorescence and circular dichroism properties of poly(quinoxaline-2,3-diyl)s bearing pyrene pendants
Nagata, Y.; Nishikawa, T.; Suginome, M., *Chem. Commun.* **2012**, *48*, 11193-11195. [DOI: 10.1039/C2CC36275A]

128. Catalytic Functionalization of Methyl Group on Silicon: Iridium-Catalyzed C(sp³)-H Borylation of Methylchlorosilanes
Ohmura, T.; Torigoe, T.; Suginome, M., *J. Am. Chem. Soc.* **2012**, *134*, 17416-17419. [DOI: 10.1021/ja307956w]
127. Dearomatizing Conversion of Pyrazines to 1,4-Dihydropyrazine Derivatives via Transition-Metal-Free Diboration, Silaboration, and Hydroboration
Oshima, K.; Ohmura, T.; Suginome, M., *Chem. Commun.* **2012**, *48*, 8571-8573. [DOI: 10.1039/C2CC34086K]
126. Enhanced Catalyst Activity and Enantioselectivity with Chirality-switchable Polymer Ligand PQXphos in Pd-catalyzed Asymmetric Silaborative Cleavage of *meso*-Methylenecyclopropanes
Akai, Y.; Yamamoto, T.; Nagata, Y.; Ohmura, T.; Suginome, M., *J. Am. Chem. Soc.* **2012**, *134*, 11092-11095. [DOI: 10.1021/ja303506k]
125. Regioselective Synthesis of 1,2-Dihydropyridines via Rhodium-catalyzed Hydroboration of Pyridines
Ohmura, T.; Oshima, K.; Suginome, M., *J. Am. Chem. Soc.* **2012**, *134*, 3699-3702. [DOI: 10.1021/ja3002953]
124. Inversion or Retention? Effects of Acidic Additives on the Stereochemical Course in Enantiospecific Suzuki-Miyaura Coupling of α -(Acetylamino)benzylboronic Esters
Awano, T.; Ohmura, T.; Suginome, M. *J. Am. Chem. Soc.*, **2011**, *133*, 20738-20741. [DOI: 10.1021/ja210025q]
123. (*E*)- and (*Z*)- β -Borylallylsilanes via Alkyne Silaboration followed by Regio- and Stereoselective Double Bond Migration
Ohmura, T.; Oshima, K.; Suginome, M., *Angew. Chem., Int. Ed.* **2011**, *50*, 12501-12504. [DOI: 10.1002./anie.201106077]
122. Catalytic Asymmetric Synthesis Using Chirality-Switchable Helical Polymer as a Chiral Ligand
Suginome, M.; Yamamoto, T.; Nagata, Y.; Yamada, T.; Akai, Y., *Pure App. Chem.* **2012**, *84*, 1759. [DOI: 10.1351./PAC-CON-11-08-23]
121. Control of Helical Chirality of Poly(quinoxaline-2,3-diyl)s Based on Post-Polymerization Modification of the Terminal Group by Chiral Small Molecules
Nagata, Y.; Ohashi, S; Suginome, M., *J. Polym. Sci. Part A: Polym. Chem.* **2012**, *50*, 1564-1571.
120. Synthesis of Poly(quinoxaline-2,3-diyl)s with Alkoxy Side Chains by Aromatizing Polymerization of 4,5-Dialkoxy-substituted 1,2-diisocyanobenzenes
Nagata, Y.; Suginome, M. *J. Polym. Sci. Part A: Polym. Chem.* **2011**, *49*, 4275-4282. [DOI: 10.1002/pola.24871]

119. High-Molecular-Weight Polyquinoxaline–Phosphine (PQXphos) as an Efficient Chiral Ligand for Asymmetric Biaryl Synthesis by Suzuki–Miyaura Coupling
Yamamoto, T.; Akai, Y.; Nagata, Y.; Suginome, M. *Angew. Chem., Int. Ed.* **2011**, *50*, 8844–8847. [DOI: 10.1002/anie.201103792]
118. Ruthenium-Catalyzed C–H-Silylation of Methylboronic Acid Using a Removable α -Directing Modifier on the Boron Atom
Ihara, H.; Ueda, A.; Suginome, M. *Chem. Lett.* **2011**, *40*, 916–918. [DOI: 10.1246/cl.2011.916]
117. Palladium-Catalyzed Regioselective Silaboration of Pyridines Leading to the Synthesis of Silylated Dihydropyridines
Oshima, K.; Ohmura, T.; Suginome, M. *J. Am. Chem. Soc.* **2011**, *133*, 7324–7327. [DOI: 10.1021/ja2020229]
116. Dinuclear Pd and Pt Complexes with Bridging Silylene Ligands. Preparation using (Aminosilyl)boronic Esters as the Ligand Precursor and Their reactions with Alkynes
Tanabe, M.; Jiang, J.; Yamazawa, H.; Osakada, K.; Ohmura, T.; Suginome, M. *Organometallics* **2011**, *30*, 3981–3991. [DOI: 10.1021/om200156g]
115. Anthranilamide: A Simple, Removable Ortho-Directing Modifier for Arylboronic Acids Serving also as a Protective Group in Cross-Coupling Reactions
Ihara, H.; Koyanagi, M.; Suginome, M. *Org. Lett.* **2011**, *13*, 2662–2665. [DOI: 10.1021/ol200764g] 2011/4
114. Stereoselective Cyclizative Alkenylboration of Carbon–Carbon Double Bonds through Catalytic Activation of Boron–Chlorine Bond with Transmetalation from Alkenylzirconium Reagents
Daini, M.; Suginome, M. *J. Am. Chem. Soc.* **2011**, *133*, 4758–4761. [DOI: 10.1021/ja200856t] 2011/3
113. 2-Vinylindoles as the Four-Atom Component in a Catalytic [4+1] Cycloaddition with a Silylene-Palladium Species Generated from (Aminosilyl)boronic Ester
Masuda, K.; Ohmura, T.; Suginome, M., *Organometallics* **2011**, *30*, 1322–1325. [DOI: 10.1021/om200135u] 2011/2
112. Integrated Catalytic C–H Transformations for One-Pot Synthesis of 1-Arylisindoles from Isoindolines via Palladium-Catalyzed Dehydrogenation Followed by C–H Arylation
Ohmura, T.; Kijima, A.; Suginome, M., *Org. Lett.* **2011**, *13*, 1238–1241. [DOI: 10.1021/ol2001232] 2011/1
111. Stereospecific Suzuki–Miyaura Coupling of Chiral α -(Acylamino)benzylboronic Esters with Inversion of Configuration
Ohmura, T.; Awano, T.; Suginome, M., *J. Am. Chem. Soc.*, **2010**, *132*, 13191–13193. [DOI: 10.1021/ja106632j]

110. Switch of Regioselectivity in Palladium-Catalyzed Silaboration of Terminal Alkynes by Ligand-Dependent Control of Reductive Elimination
Ohmura, T.; Oshima, K.; Taniguchi, H.; Suginome, M., *J. Am. Chem. Soc.*, **2010**, *132*, 12194-12196. [DOI: 10.1021/ja105096r]
109. High-Molecular-Weight Polyquinoxaline-Based Helically Chiral Phosphine (PQXphos) as Chirality-Switchable, Reusable, and Highly Enantioselective Monodentate Ligand in Catalytic Asymmetric Hydrosilylation of Styrenes
Yamamoto, T.; Yamada, T.; Nagata, Y.; Suginome, M. *J. Am. Chem. Soc.* **2010**, *132*, 7899-7901. [DOI: 10.1021/ja102428q]
108. Rhodium-Catalyzed Dehydroborylation of Styrenes with Naphthalene-1,8-Diaminatoborane ((dan)BH): New Synthesis of Masked β -Borylstyrenes as New Phenylene-Vinylene Cross-Coupling Modules
Iwadate, N.; Suginome, M. *Chem. Lett.* **2010**, *39* (6), 558-560. [DOI: 10.1246/cl.2010.558]
107. Synthesis of Helical Rod-Coil Multiblock Copolymers by Living Block Copolymerization of Isocyanide and 1,2-Diisocyanobenzene Using Arylnickel Initiators
Yamada, T.; Suginome, M. *Macromolecules* **2010**, *43* (9), 3999-4002. [DOI: 10.1021/ma100500r] 2010/4
106. Langmuir-Blodgett Films of Helical Rigid-Rod Poly(quinoxaline-2,3-diyl)s
Ito, Y.; Miyake, T.; Suginome, M.; Katakura, R.; Mitsuishi, M.; Miyashita, T. *Polym. J.* **2010**, *42*, 406-410. [DOI: 10.1038/pj.2010.14] 2010/3
105. Nickel-Catalyzed Asymmetric Addition of Alkyne C-H Bonds Across 1,3-Dienes Using TADDOL-Based Chiral Phosphoramidite Ligands
Shirakura, M.; Suginome, M. *Angew. Chem. Int. Ed.*, **2010**, *49* (22), 3827-3829. [DOI: 10.1002/anie.201001188] 2010/4
104. Differentially Protected Diboron for Regioselective Diboration of Alkynes: Internal-Selective Cross-Coupling of 1-Alkene-1,2-diboronic Acid Derivatives
Iwadate, N.; Suginome, M. *J. Am. Chem. Soc.* **2010**, *132*, 2548-2549. [DOI: 10.1021/ja1000642] 2010/2
103. Non-Hydrogen-Bonding-Based, Solvent-Dependent Helix Inversion Between Pure *P*-Helix and Pure *M*-Helix in Poly(quinoxaline-2,3-diyl)s Bearing Chiral Side Chains
Yamada, T.; Nagata, Y.; Suginome, M. *Chem. Commun.* **2010**, *46*, 4914-4916. [DOI: 10.1039/c001564d] 2010/6
102. Chiral Arylnickel Complexes as Highly Active Initiators for Screw-Sense Selective Living Polymerization of 1,2-Diisocyanobenzenes
Yamada, T.; Noguchi, H.; Nagata, Y.; Suginome, M. *J. Polym. Sci. Part A: Polym. Chem.* **2010**, *48* (4), 898-904. [DOI: 10.1002/pola.23842] 2010/1
101. Palladium-Catalyzed Silylene-1,3-Diene [4+1] Cycloaddition with Use of (Aminosilyl)boronic Esters as Synthetic Equivalents of Silylene

- Ohmura, T.; Masuda, K.; Takase, I.; Suginome, M. *J. Am. Chem. Soc.* **2009**, *131*, 16624-16625. [DOI: 10.1021/ja907170p]
100. Nickel-Catalyzed Ring-Opening Hydroacylation of Methylene-cyclopropanes: Synthesis of γ,δ -Unsaturated Ketones from Aldehydes
Taniguchi, H.; Ohmura, T.; Suginome, M. *J. Am. Chem. Soc.* **2009**, *131*, 11298-11299. [DOI: 10.1021/ja9046894]
99. Kinetic Resolution of Racemic 1-Alkyl-2-methylene-cyclopropanes via Palladium-Catalyzed Silaborative C-C Cleavage
Ohmura, T.; Taniguchi, H.; Suginome, M. *Org. Lett.* **2009**, *11*, 2880-2883. [DOI: 10.1021/ol900829c]
98. α -Amidobenzoylation of Aryl- and Alkenyl Halides via Palladium-Catalyzed Suzuki-Miyaura Coupling with α -(Acylamino)benzylboronic Esters
Ohmura, T.; Awano, T.; Suginome, M. *Chem. Lett.* **2009**, *38*, 664-665. [DOI: 10.1246/cl.2009.664] 2009/7
97. Easily Attachable and Detachable *ortho*-Directing Agent for Arylboronic Acids in Ruthenium-Catalyzed Aromatic C-H Silylation
Ihara, H.; Suginome, M. *J. Am. Chem. Soc.* **2009**, *131*(22), 7502-7503. [DOI: 10.1021/ja902314v] 2009/3
96. Synthesis of 1-Borylisoindoles via Palladium-Catalyzed Dehydrogenation/C-H Borylation of Isoindolines
Ohmura, T.; Kijima, A.; Suginome, M. *J. Am. Chem. Soc.* **2009**, *131*(17), 6070-6071. [DOI: 10.1021/ja901095h] 2009/4
95. Synthesis of B-Protected β -Styrylboronic Acids via Iridium-Catalyzed Hydroboration of Alkynes with 1,8-Naphthalenediaminoborane Leading to Iterative Synthesis of Oligo(phenylenevinylene)s
Iwadate, N.; Suginome, M. *Org. Lett.* **2009**, *11* (9), 1899-1902. [DOI: 10.1021/ol9003096] 2009/3
94. Nickel-Catalyzed, Regio- and Stereoselective Hydroalkynylation of Methylene-cyclopropanes with Retention of the Cyclopropane Ring, Leading to the Synthesis of 1-Methyl-1-Alkynylcyclopropanes
Shirakura, M.; Suginome, M. *J. Am. Chem. Soc.* **2009**, *131* (14), 5060-5061. [DOI: 10.1021/ja900876w] 2009/3
93. Palladium-catalyzed intramolecular cyanoboration of allenes leading to the regioselective synthesis of β -cyanoallylboranes
Yamamoto, A.; Ikeda, Y.; Suginome, M. *Tetrahedron Lett.* **2009**, *50* (26), 3168-3170. [DOI: 10.1016/j.tetlet.2009.01.025] 2009/1
92. B(OMe)₃ as a Nonacidic Iminium Ion Generator in Mannich- and Ugi-type Reactions

- Tanaka, Y.; Hidaka, K.; Hasui, T.; Suginome, M. *Eur. J. Org. Chem.*, **2009**, 1148-1151. [DOI: 10.1002/ejoc.200801190] 2009/1
91. Synthesis of Masked Haloareneboronic Acids via Iridium-Catalyzed Aromatic C-H Borylation with 1,8-Naphthalenediaminatoborane (danBH)
Iwadate, N.; Suginome, M. *J. Organomet. Chem.* **2009**, 694, 1713-1717. [DOI: 10.1016/j.jorgchem.2008.11.068] 2008/12
90. Nickel-catalyzed Regioselective Hydroalkynylation of Styrenes: Improved Catalyst System, Reaction Scope, and Mechanism
Shirakura, M.; Suginome, M. *Org. Lett.* **2009**, 17, 523-526. [DOI: 10.1021/ol802475h] 2009/2
89. Stereoselective Synthesis of *cis*- β -Methyl- and Phenyl-Substituted Alkenylboranes via Platinum-Catalyzed Dehydrogenative Borylation
Ohmura, T.; Takasaki, Y.; Suginome, M. *Angew. Chem., Int. Ed.* **2009**, 48, 2372-2375. [DOI: 10.1002/anie.200805406] 2009/2
88. Helical Poly(quinoxaline-2,3-diyl)s Bearing Metal-Binding Sites as New Polymer-Based Chiral Ligands for Asymmetric Catalysis
Yamamoto, T.; Suginome, M. *Angew. Chem., Int. Ed.*, **2009**, 48, 539-542. [DOI: 10.1002/anie.200803719] 2008/12
87. Palladium-Catalyzed Carboboration of Alkynes Using Chloroborane and Organozirconium Reagents
Daini, M.; Suginome, M. *Chem. Commun.* **2008**, 5224-5226. [DOI: 10.1039/b809433k] 2008/9
86. Nickel-Catalyzed Addition of C-H Bonds of Terminal Alkynes to 1,3-Dienes and Styrenes
Shirakura, M.; Suginome, M. *J. Am. Chem. Soc.* **2008**, 130, 5410-5411. 2008/4
85. Diarylborinic Acid Derivatives as a Catalytic Iminium Ion Generator in the Mannich-type Reaction Using *sec*-Amines, Aldehydes, and Ketene Silyl Acetals
Tanaka, Y.; Hasui, T.; Suginome, M. *Synlett*, **2008**, 1239-1242. 2008/4
84. Palladium-catalyzed *cis*- and *trans*-Silaboration of Terminal Alkynes: Complementary Access to Stereo-Defined Trisubstituted Alkenes
Ohmura, T.; Oshima, K.; Suginome, M. *Chem. Commun.* **2008**, 1416-1418. 2008/2
83. Palladium-Catalyzed *trans*- and *cis*-Carboboration of Alkynes Tethered to Chloroborane with Organozirconium Reagents: Ligand-Dependent Complementary Stereoselectivity
Daini, M.; Yamamoto, A.; Suginome, M. *J. Am. Chem. Soc.* **2008**, 130, 2918-2919. 2008/2
82. Synthetic Application of Intramolecular Cyanoboration on the Basis of Removal and Conversion of a Tethering Group by Palladium-Catalyzed Retro-allylation
Ohmura, T.; Awano, T.; Suginome, M.; Yorimitsu, H.; Oshima, K. *Synlett* **2008**, (3), 423-427. 2008/1

81. A Mechanism for the Palladium-Catalyzed Regioselective Silaboration of Allene: A Theoretical Study
Abe, Y.; Kuramoto, K.; Ehara, M.; Nakatsuji, H.; Suginome, M.; Murakami, M.; Ito, Y. *Organometallics* **2008**, *27*, 1736-1742. 2008/3
80. Differentially Protected Benzenediboronic Acids: Divalent Cross-Coupling Modules for the Efficient Synthesis of Boron-Substituted Oligoarenes
Noguchi, H.; Shioda, T.; Chou, C.-M.; Suginome, M. *Org. Lett.* **2008**, *10*, 377-380. 2008/1
79. Silylboranes Bearing Dialkylamino Groups on Silicon as Silylene Equivalents: Palladium-Catalyzed Regioselective Synthesis of 2,4-Disubstituted Siloles
Ohmura, T.; Masuda, K.; Suginome, M. *J. Am. Chem. Soc.* **2008**, *130*, 1526-1527. 2008/1
78. Acid-free, Aminoborane-mediated Ugi-type Reaction Leading to General Utilization of Secondary Amines
Tanaka, Y.; Hasui, T.; Suginome, M. *Org. Lett.* **2007**, *9*, 4407-4410.
77. Synthesis and Helical Structure of Oligo(quinoline-2,3-diyl)s
Suginome, M.; Noguchi, H.; Murakami, M. *Chem. Lett.* **2007**, *36*, 1036-1037.
76. Palladium-Catalyzed Asymmetric Silaborative C-C Cleavage of *meso*-Methylenecyclopropanes
Ohmura, T.; Taniguchi, H.; Kondo, Y.; Suginome, M. *J. Am. Chem. Soc.* **2007**, *129*, 3518-3519.
75. Boron-Masking Strategy for the Selective Synthesis of Oligoarenes via Iterative Suzuki-Miyaura Coupling
Noguchi, H.; Hojo, K.; Suginome, M. *J. Am. Chem. Soc.* **2007**, *129*, 758-759.
74. Synthesis of Silylboronic Acid Esters Functionalized on Silicon
Ohmura, T.; Masuda, K.; Furukawa, H.; Suginome, M. *Organometallics* **2007**, *26*, 1291-1294.
73. Ligand-Controlled, Complementary Stereoselectivity in the Platinum-Catalyzed Intramolecular Silaboration of Alkenes
Ohmura, T.; Furukawa, H.; Suginome, M. *J. Am. Chem. Soc.* **2006**, *128*, 13366-13367.
72. Nickel-Catalyzed Addition of Alkynylboranes to Alkynes
Suginome, M.; Shirakura, M.; Yamamoto, A. *J. Am. Chem. Soc.* **2006**, *128*, 14438-14439.
71. Palladium-Catalyzed Asymmetric Silaboration of Allenes
Ohmura, T.; Taniguchi, H.; Suginome, M. *J. Am. Chem. Soc.* **2006**, *128*, 13682-13683.
70. The Asymmetric Silaboration of Terminal Allenes Bearing α -Stereogenic Centers: Stereoselection Based on "Reagent Control"
Ohmura, T.; Suginome, M. *Org. Lett.* **2006**, *8*, 2503-2506.

69. Reactions of Cyanoboranes with a Palladium–PMe₃ Complex: Mechanism for the Catalytic Cyanoboration of Alkynes
Suginome, M.; Yamamoto, A.; Sasaki, T.; Murakami, M. *Organometallics* **2006**, *25*, 2911–2913. .
68. Reductive Amination of Aldehydes Using Aminoboranes as Iminium Ion Generators
Suginome, M.; Tanaka, Y.; Hasui, T. *Synlett* **2006**, 1047–1050. .
67. Aminoboranes as New Iminium Ion Generators in Amination Reactions
Suginome, M. *Pure Appl. Chem.* **2006**, *78*, 1377–1387.
66. Nickel-Catalyzed *trans*-Alkynylboration of Alkynes via Activation of a Boron-Chlorine Bond
Yamamoto, A.; Suginome, M. *J. Am. Chem. Soc.* **2005**, *127*, 15706–15707.
65. Intramolecular Cyanoboration of Alkynes via Activation of Boron-Cyanide Bonds by Transition Metal Catalysts
Suginome, M.; Yamamoto, A.; Murakami, M. *J. Organomet. Chem.*, **2005**, *690*, 5300–5308.
64. Palladium-Catalyzed Addition of Cyanoboranes to Alkynes: Regio- and Stereoselective Synthesis of α,β -Unsaturated β -Boryl Nitriles
Suginome, M.; Yamamoto, A.; Murakami, M. *Angew. Chem., Int. Ed.* **2005**, *44*, 2380–2382.
63. Synthesis and Structural Analysis of Oligo(naphthalene-2,3-diyl)s
Motomura, T.; Nakamura, H.; Suginome, M.; Murakami, M.; Ito, Y. *Bull. Chem. Soc. Jpn.* **2005**, *78*, 142–146.
62. Stereoselective Synthesis of Highly Enantioenriched (E)-Allylsilanes by Palladium-Catalyzed Intramolecular Bis-Silylation: 1,3-Chirality Transfer and Enantioenrichment via Dimer Formation
Suginome, M.; Iwanami, T.; Ohmori, Y.; Matsumoto, A.; Ito, Y. *Chem. Eur. J.*, **2005**, *11*, 2954–2965.
61. Synthesis and Reactions of Cyclic Silylboranes
Suginome, M.; Noguch, H.; Hasui, T.; Murakami, M. *Bull. Chem. Soc. Jpn.*, **2005**, *78*, 323–326.
60. Aminoboranes as "Compatible" Iminium Ion Generators in Aminative C–C Bond Formations
Suginome, M.; Uhelin, L.; Murakami, M. *J. Am. Chem. Soc.* **2004**, *126*, 13196–13197.
59. New Look at Boron Enolate Chemistry: Aminative C–C Bond Formation Using Diaminoboron Enolate with Aldehyde
Suginome, M.; Uhelin, L.; Yamamoto, A.; Murakami, M. *Org. Lett.* **2004**, *6*, 1167–1169.
58. Enantioface-Selective Palladium-Catalyzed Silaboration of Allenes via Double Asymmetric Induction

- Suginome, M.; Ohmura, T.; Miyake, Y.; Mitani, S.; Ito, Y.; Murakami, M. *J. Am. Chem. Soc.* **2003**, *125*, 11174-11175.
57. Palladium- and Nickel-Catalyzed Intramolecular Cyanoboration of Alkynes
Suginome, M.; Yamamoto, A.; Murakami, M. *J. Am. Chem. Soc.* **2003**, *125*, 6358-6359.
56. Bis(dialkylamino)cyanoboranes: Highly Efficient Reagents for the Strecker-type Aminative Cyanation of Aldehydes and Ketones.
Suginome, M.; Yamamoto, A.; Ito, Y. *Chem. Comm.* **2002**, 1392-1393.
55. Nickel-Catalyzed Silaboration of Small-Ring Vinylcycloalkanes: Regio- and Stereoselective (*E*)-Allylsilane Formation via C-C Bond Cleavage.
Suginome, M.; Matsuda, T.; Yoshimoto, T.; Ito, Y. *Organometallics* **2002**, *21*, 1537-1539.
54. 1,2-Azaboretidine Formation in the Reactions of (Boryl)(silyl)iminomethanes via Possible Generation of (Amino)(boryl)carbene Species
Suginome, M.; Fukuda, T.; Ito, Y. *J. Organomet. Chem.* **2002**, 643-644, 508. (Special issue dedicated to Prof. F. Mathey)
53. Highly Effective, Easily Accessible Screw-Sense-Determining End Group in the Asymmetric Polymerization of 1,2-Diisocyanobenzenes
Suginome, M.; Collet, S.; Ito, Y. *Org. Lett.* **2002**, *4*, 351-354.
52. Stereoselective Construction of *trans*-1,2-Benzooxadecaline Frameworks by Three-Component Cascade Reactions of an α -Phenethyl- β -borylallylsilane with Aldehydes
Suginome, M.; Ohmori, Y.; Ito, Y. *Chem. Commun.* **2001**, 1090-1091.
51. Solid-Phase Synthesis and Asymmetric Reactions of Polymer-Supported Highly Enantioenriched Allylsilanes
Suginome, M.; Iwanami, T.; Ito, Y. *J. Am. Chem. Soc.* **2001**, *123*, 4356-4357.
50. Asymmetric Synthesis of Cyclic Alkenes via Cyclization of Enantioenriched Allylsilanes
Suginome, M.; Iwanami, T.; Yamamoto, A.; Ito, Y. *Synlett*, **2001**, 1042-1045.
49. β -Borylallylsilanes as a New Tool for Convenient Synthesis of Alkenylboranes
Suginome, M.; Ohmori, Y.; Ito, Y. *J. Am. Chem. Soc.* **2001**, *123*, 4601-4602.
48. Palladium- and Platinum-Catalyzed Silaboration of Methylene-cyclopropanes through Selective Proximal or Distal C-C Bond Cleavage
Suginome, M.; Matsuda, T.; Ito, Y. *J. Am. Chem. Soc.* **2000**, *122*, 11015-11016.
47. Convenient Preparation of Silylboranes
Suginome, M.; Matsuda, T.; Ito, Y. *Organometallics* **2000**, *19*, 4647-4649.
46. First Synthesis and Resolution of a Planar-chiral Tetrahydroindolyl Complex of Iron: Electronic Tuning of Reactivity and Enantioselective Nucleophilic Catalysis
Suginome, M.; Fu, G. C. *Chirality* **2000**, *12*, 318-324.

45. Palladium-Catalyzed Regioselective Silaboration of 1,2-Dienes
Suginome, M.; Ohmori, Y.; Ito, Y. *J. Organomet. Chem.* **2000**, *611*, 403-413. (Special issue: The Chemistry of Interelement Linkage)
44. Structural Modification of Living Polymers: Synthesis of Helical Block Copolymers from a Single Monomer via Palladium-Mediated Aromatizing Polymerization of 1,2-Diisocyanobenzenes
Ito, Y.; Miyake, T.; Suginome, M. *Macromolecules* **2000**, *33*, 4034-4038.
43. Synthesis of (Boryl)(silyl)iminomethanes by Insertion of Isonitriles into Silicon-Boron Bonds
Suginome, M.; Fukuda, T.; Nakamura, H.; Ito, Y. *Organometallics* **2000**, *19*, 719-721.
42. Asymmetric Synthesis of 2,3-Disubstituted Oxepanes via Acetalization-Cyclization of an Enantioenriched Functionalized Allylsilane with Aldehydes
Suginome, M.; Iwanami, T.; Ito, Y. *Chem. Commun.* **1999**, 2537-2538.
41. New Access to 2,3-Disubstituted Quinolines through Cyclization of *o*-Alkynylisocyanobenzenes
Suginome, M.; Fukuda, T.; Ito, Y. *Org. Lett.* **1999**, *1*, 1977-1979.
40. Stereoselective 1,4-Silaboration of 1,3-Dienes Catalyzed by Nickel Complexes
Suginome, M.; Matsuda, T.; Yoshimoto, T.; Ito, Y. *Org. Lett.* **1999**, *1*, 1567-1569.
39. Highly Regioselective Silaboration of 3-Substituted 1,2-Dienes Catalyzed by Palladium/2,6-Xylyl Isocyanide
M. Suginome, Y. Ohmori, Y. Ito, *Synlett* **1999**, 1567-1568.
38. Regio- and Stereoselective Synthesis of (*Z*)- β -Silylalkenylboranes by Silaboration of Alkynes Catalyzed by Palladium and Platinum Complexes
M. Suginome, T. Matsuda, H. Nakamura, Y. Ito, *Tetrahedron* **1999**, *55*, 8787-8800.
37. Nickel-Catalyzed Silaborative Dimerization of Alkynes
M. Suginome, T. Matsuda, Y. Ito, *Organometallics* **1998**, *17*, 5233-5235.
36. Asymmetric Synthesis of Helical Poly(quinoxaline-2,3-diyl)s by Palladium-Mediated Polymerization of 1,2-Diisocyanobenzenes: Effective Control of the Screw-Sense by a Binaphthyl Group at the Chain-End
Y. Ito, T. Miyake, S. Hatano, R. Shima, T. Ohara, M. Suginome, *J. Am. Chem. Soc.* **1998**, *120*, 11880-11893.
35. Stereoselective Cyclization of Highly Enantio-Enriched Allylsilanes with Aldehydes via Acetal Formation: New Asymmetric Access to Tetrahydropyrans and Piperidines
M. Suginome, T. Iwanami, Y. Ito, *J. Org. Chem.* **1998**, *63*, 6096-6097.

34. Platinum-Catalyzed Silaborative Coupling of 1,3-Dienes to Aldehydes: Regio- and Stereoselective Allylation with Dienes through Allylic Platinum Intermediates
M. Suginome, H. Nakamura, T. Matsuda, Y. Ito, *J. Am. Chem. Soc.* **1998**, *120*, 4248-4249.
33. Stereospecific Cationic [1,2]-Silyl Shift with Retention of Configuration at the Migrating Terminus
M. Suginome, A. Takama, Y. Ito, *J. Am. Chem. Soc.* **1998**, *120*, 1930-1931.
32. Asymmetric Synthesis of Helically Stable Poly(quinoxaline-2,3-diyl)s Having Hydrophilic and/or Hydrophobic Side-chains
Y. Ito, T. Miyake, T. Ohara, M. Suginome, *Macromolecules* **1998**, *13*, 1697-1699.
31. Reactions of a Spiro Trisilane with Palladium Complexes: Synthesis and Structure of Tris(organosilyl)CpPd(IV) and Bis(organosilyl)(μ -organosilylene)Pd₂(II) Complexes.
M. Suginome, Y. Kato, N. Takeda, H. Oike, Y. Ito, *Organometallics* **1998**, *17*, 495-497.
30. Racemization and Deracemization of Poly(quinoxaline-2,3-diyl)s
Y. Ito, Y. Kojima, M. Murakami, M. Suginome, *Bull. Chem. Soc. Jpn.* **1997**, *70*, 2801-2806.
29. Platinum-catalyzed Regioselective Silaboration of Alkenes.
M. Suginome, H. Nakamura, Y. Ito, *Angew. Chem. Int. Ed. Engl.* **1997**, *36*, 2516-2518, *Angew. Chem.* **1997**, *109*, 2627-2628.
28. Synthesis of Highly Enantio-enriched Allylsilanes via Palladium-catalyzed Intramolecular Bis-Silylation. Determination of the Enantiomeric Excesses through Regio- and Stereoselective Hydroboration with 9-BBN.
M. Suginome, T. Iwanami, A. Matsumoto, Y. Ito, *Tetrahedron: Asymmetry*, **1997**, *8*, 859-862.
27. Optically Active Isonitrile Ligand for Palladium-Catalyzed Enantioselective Bis-Silylation of Carbon-Carbon Double Bonds
M. Suginome, H. Nakamura, Y. Ito, *Tetrahedron Lett.* **1997**, *38*, 555-558.
26. New Synthetic Access to 1,3-Diaza-5-sila-2-boracyclohexane Frameworks by the Reaction of Borane with Bis[(N-arylimino)organosilylmethyl]silanes
M. Suginome, T. Fukuda, Y. Ito, *Heterocycles* **1997**, *44*, 121-124. (Special issue dedicated to Prof. S. Oae)
25. Regio- and Stereoselective Silaboration of Alkynes Catalyzed by Palladium and Platinum Complexes
M. Suginome, H. Nakamura, Y. Ito, *Chem. Commun.*, **1996**, 2777-2778.
24. Palladium-Catalyzed Intramolecular Addition of Trisilanes to Carbon-Carbon Double Bonds. Polyol Synthesis by Use of a Disilanyl Group as a Hydroxyl Equivalent.
M. Suginome, S. Matsunaga, T. Iwanami, A. Matsumoto, Y. Ito, *Tetrahedron Lett.* **1996**, *37*, 8887-8890.

23. Highly Screw-Sense Selective Polymerization of 1,2-Diisocyano-3,6-di-*p*-tolylbenzene Initiated by Optically Active Binaphthylpalladium(II) Complexes
Y. Ito, T. Ohara, R. Shima, M. Suginome, *J. Am. Chem. Soc.* **1996**, *118*, 9188–9189.
22. Intramolecular Bis-Silylation of Alkenes Catalyzed by Palladium(0) *tert*-alkyl isocyanide Complex. Stereoselective Synthesis of Polyols
Y. Ito, M. Suginome, *Pure Appl. Chem.* **1996**, *68*, 505-508.
21. Palladium-Catalyzed Intramolecular Bis-Silylation of Propargylic Alcohols: A New Stereospecific Access to Chiral Allenylsilanes
M. Suginome, A. Matsumoto, Y. Ito, *J. Org. Chem.* **1996**, *61*, 4884-4885.
20. Double Oxidative Addition of the Si–Si and Si–Ge Bonds onto Isonitrile–Platinum(0) Complexes Leading to the Formation of Tetrakis(organosilyl)-and Bis(organogermyl)-bis(organogermyl)platinum(IV) Complexes
M. Suginome, H. Oike, P. H. Shuff, Y. Ito, *J. Organomet. Chem.* **1996**, *521*, 405–408. (Special issue dedicated to Prof. R. J. P. Corriu)
19. Synthesis of Organosilicon Macrocycles. Palladium–Catalyzed Ring–Enlargement Oligomerization of Cyclic Disilanes via Si–Si σ -Bond Metathesis
M. Suginome, H. Oike, P. H. Shuff, Y. Ito, *Organometallics* **1996**, *15*, 2170–2178.
18. New Synthesis of (*E*)-Allylsilanes with High Enantiopurity via Diastereoselective Intramolecular Bis-Silylation of Chiral Allylic Alcohols
M. Suginome, A. Matsumoto, Y. Ito, *J. Am. Chem. Soc.* **1996**, *118*, 3061–3062.
17. New Synthesis of Quinoxaline Derivatives Based on Palladium Catalyzed Oligomerization of 1,2-Diisocyanoarenes
Y. Ito, Y. Kojima, M. Suginome, M. Murakami, *Heterocycles* **1996**, *42*, 597–615. (Special issue dedicated to Prof. Y. Ban)
16. Reactions of Si–Si σ -Bonds with Bis(*t*-alkyl isocyanide)palladium(0) Complexes. Synthesis and Reactions of Cyclic Bis(organosilyl)palladium Complexes [Headline Article]
M. Suginome, H. Oike, S.-S. Park, Y. Ito, *Bull. Chem. Soc. Jpn.* **1996**, *69*, 289–299.
15. Diastereoselective Intramolecular Bis-Silylation of a Carbon-Carbon Double Bond. A Highly Stereocontrolled Synthesis of (-)-Avenaciolide.
M. Suginome, Y. Yamamoto, K. Fujii, Y. Ito, *J. Am. Chem. Soc.* **1995**, *117*, 9608–9609.
14. Disilanyl Group as a Synthetic Equivalent of the Hydroxyl Group
M. Suginome, S. Matsunaga, Y. Ito, *Synlett* **1995**, 941–942.
13. Palladium-*tert*-Alkyl Isocyanide Catalyzed Intramolecular Bis-Silylation of Vicinally Disubstituted Alkenes.
M. Suginome, A. Matsumoto, K. Nagata, Y. Ito, *J. Organomet. Chem.* **1995**, *499*, C1-C3. (Special issue dedicated to Prof. H. Sakurai)

12. Macrocycles with Regularly Arranged Si–Si Bonds: Ring-Enlargement Oligomerization of Cyclic Disilanes via Palladium-Catalyzed Si-Si σ -Bond Metathesis.
M. Suginome, H. Oike, Y. Ito, *J. Am. Chem. Soc.* **1995**, *117*, 1665-1666.
11. Novel Activation of Two Si–Si σ -Bonds in a Molecule by *tert*-Alkyl Isocyanide–Palladium Complexes
M. Suginome, H. Oike, Y. Ito, *Organometallics* **1994**, *13*, 4148-4150.
10. Palladium-Catalyzed Intramolecular Cyanosilylation of Alkynes Leading to Stereoselective Synthesis of α,β -Unsaturated Nitriles
M. Suginome, H. Kinugasa, Y. Ito, *Tetrahedron Lett.* **1994**, *35*, 8635-8638.
9. Synthesis and Structure of a Nontwisted Tetrakis(organosilyl)ethenes
M. Murakami, M. Suginome, K. Fujimoto, Y. Ito, *Angew. Chem., Int. Ed. Engl.* **1993**, *32*, 1473-1475, *Angew. Chem.* **1993**, *105*, 1542-1544.
8. Stereoselective Intramolecular Bis-Silylation of Alkenes Promoted by Palladium-Isocyanide Catalyst Leading to Polyol Synthesis
M. Murakami, M. Suginome, K. Fujimoto, H. Nakamura, P. G. Andersson, Y. Ito, *J. Am. Chem. Soc.* **1993**, *115*, 6487-6498.
7. Stereoselective Synthesis of 1,2,4-Triols via Intramolecular Bis-Silylation of Carbon-Carbon Triple Bonds Followed by Hydrogenation
M. Murakami, H. Oike, M. Sugawara, M. Suginome, Y. Ito, *Tetrahedron* **1993**, *49*, 3933-3946.
6. Intramolecular Bis-silylation of Carbon-Carbon Double Bonds Leading to Stereoselective Synthesis of 1,2,4-Triols
M. Murakami, P. G. Andersson, M. Suginome, Y. Ito, *J. Am. Chem. Soc.* **1991**, *113*, 3987-3988.
5. Palladium(II) Acetate–*tert*-Alkyl Isocyanide as a Highly Efficient Catalyst for the Inter- and Intramolecular Bis-silylation of Carbon-Carbon Triple Bonds
Y. Ito, M. Suginome, M. Murakami, *J. Org. Chem.* **1991**, *56*, 1948-1951.
4. Palladium-Catalyzed Insertion of Isocyanides into the Silicon-Silicon Linkages of Oligosilanes
Y. Ito, M. Suginome, T. Matsuura, M. Murakami, *J. Am. Chem. Soc.* **1991**, *113*, 8899-8908.
3. Novel Skeletal Rearrangement Reaction of Tetrasilanes with Aryl Isocyanides
Y. Ito, M. Suginome, M. Murakami, *J. Chem. Soc. Chem. Commun.* **1989**, 1494–1495.
2. Reactions of (Triphenylphosphine)gold(I) Enolates and Homo-enolates
M. Murakami, M. Inouye, M. Suginome, Y. Ito, *Bull. Chem. Soc. Jpn.* **1988**, *61*, 3649–3652.
1. Convenient preparative method and crystal structures of (triphenylphosphine)gold(I) enolate and homo-enolate complexes

Y. Ito, M. Inouye, M. Suginome, M. Murakami, *J. Organomet. Chem.* **1988**, 342, C41–C44.

Part 2: Accounts, Reviews, and Book Chapters in English

21. Molecular Technology for Switch and Amplification of Chirality in Asymmetric Catalysis Using a Helically Dynamic Macromolecular Scaffold as a Source of Chirality
Suginome, M. In *Molecular Technology: Synthesis Innovation*, Vol. 4, Yamamoto, H, Kato, T. Ed, Wiley-VCH, 2019, in press.
20. Poly(quinoxaline-2,3-diyl)s: A Fascinating Helical Macromolecular Scaffold for New Chiral Functions
Suginome, M.; Yamamoto, T.; Nagata, Y.; *J. Synth. Org. Chem. Jpn.* **2015**, *73*, 1141-1155. (English Issue)
19. Arylboronic Acid Derivative Cross-Coupling Reaction
Suginome, M.; Ohmura, T.; *Science of Synthesis Cross Coupling and Heck-Type Reactions 1*, G. A. Molander Ed., Thieme, 2012, 147-201.
18. Poly(isocyanide)s, Poly(quinoxaline-2,3-diyl)s, and Related Helical Polymers Utilized as Chiral Polymer Catalysts in Asymmetric Synthesis
Nagata, Y.; Suginome, M. In *Polymeric Chiral Catalyst Design and Chiral Polymer Synthesis*; Itsuno, S., Ed.; Wiley; 2011, pp 223-266.
17. 2-(Dimethylphenylsilyl)-4,4,5,5-tetramethyl-1,3,2-dioxaborolane
Ohmura, T.; Suginome, M. In *Handbook of Reagents for Organic Synthesis, Reagents for Silicon-Mediated Synthesis*; Fuchs, P. L., Ed.; Wiley; 2011; 270-276.
16. Catalytic Carboborations
Suginome, M. *Chem. Rec.* **2010**, *10*, 348-358.
15. Transition-Metal-Catalyzed Element-Boryl Additions to Unsaturated Organic Compounds
Suginome, M.; Ohmura, T. In *Boronic Acid*, 2nd Ed.; Hall, D. G. Ed.; Wiley; 2011; Vol. 1, pp 171-212.
14. Silylboranes as New Tools in Organic Synthesis
Ohmura, T.; Suginome, M. *Bull. Chem. Soc. Jpn.* **2009**, *82* (1), 29-49.
13. Development of Boron-Based Reactions and Regents for Organic Synthesis
Suginome, M. *J. Synth. Org. Chem. Jpn.* **2007**, *65*, 1048-1059. (English Issue)
12. C-E Bond Formation through Element-Element Addition to Carbon-Carbon Multiple Bonds
Suginome, M.; Matsuda, T.; Ohmura, T.; Seki, A.; Murakami, M. In *Comprehensive Organometallic Chemistry III*; Crabtree, R. and Mingos, M. Eds.; Ojima, I. Vol. Ed.; Elsevier, 2007; Volume 10, pp 725-787
11. Isocyanides and Related Compounds
Suginome, M.; Ito, Y. *Science of Synthesis* Vol. 19, Thieme, Stuttgart, 2004, p.445-530.
10. Transition Metal-Mediated Polymerization of Isocyanides

- Suginome, M.; Ito, Y. *Adv. Polym. Sci.* **2004**, *171*, 77.
9. Stereoselective Accesses to Enantioenriched Allyl-, Allenyl-, and Propargylsilanes via Si-Si Bond Activation by Palladium-Isocyanide Catalysts
Suginome, M.; Ito, Y. *J. Organomet. Chem.* **2003**, *685*, 218-229. (Special issue: A Half Century of Polysilane Chemistry)
 8. Regio- and stereoselective synthesis of boryl-substituted allylsilanes via transition metal-catalyzed silaboration
Suginome, M.; Ito, Y. *J. Organomet. Chem.* **2003**, *680*, 43-50. (Special issue: Frontiers in Boron Chemistry)
 7. Palladium-catalyzed or -promoted oxidation via 1,2- or 1,4-elimination: oxidation of silyl enol ethers and related enol derivatives to α,β -unsaturated enones and other carbonyl compounds.
Ito, Y.; Suginome, M. In *Handbook of Organopalladium Chemistry for Organic Synthesis*; Negishi, E. Ed.; Wiley, New York, 2002, Vol. 2, pp. 2873-2879.
 6. Synthesis of oligomeric and polymeric materials via palladium-catalyzed successive migratory insertion of isonitriles.
Ito, Y.; Suginome, M. In *Handbook of Organopalladium Chemistry for Organic Synthesis*; Negishi, E., Ed.; Wiley, New York, 2002, Vol. 2, pp. 2705-2712.
 5. Transition Metal-Catalyzed Additions of Silicon-Silicon and Silicon-Heteroatom Bonds to Unsaturated Organic Molecules
Suginome, M.; Ito, Y. *Chem. Rev.* **2000**, *100*, 3221-3256.
 4. Activation of Si-Si Bonds by Transition-Metal Complexes.
Suginome, M.; Ito, Y. In *Topics in Organometallic Chemistry*; Murai, S., Ed.; Springer, Heidelberg, 1999, pp. 132-159
 3. New Organic Synthesis Based upon Palladium-Catalyzed Activation of Silicon-Silicon σ -Bonds.
Suginome, M.; Ito, Y. In *Transition-Metal Catalyzed Reactions*; Murahashi, S.-i.; Davies, S. Eds.; Blackwell Science, Oxford, 1999, pp. 419-439
 2. Activation of Silicon-Silicon σ -Bonds by Transition-Metal Complexes: Synthesis and Catalysis of New Organosilyl Transition-Metal Complexes [Dalton Perspective]
Suginome, M.; Ito, Y. *J. Chem. Soc. Dalton Trans.* **1998**, 1925-1934
 1. Stereoselective Synthesis via Palladium-Catalyzed Intramolecular Bis-Silylation
Suginome, M.; Ito, Y. *J. Synth. Org. Chem. Jpn.* **1997**, *55*, 1040-1051