

Tamio Hayashi

List of Publications by Year in descending order

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142
papers

14,867
citations

13958

67
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19280

118
g-index

154
all docs

154
docs citations

154
times ranked

5761
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Rhodium-Catalyzed Asymmetric 1,4-Addition and Its Related Asymmetric Reactions. <i>Chemical Reviews</i> , 2003, 103, 2829-2844. | 49.1 | 1,371 |
| 2 | Rhodium-Catalyzed Asymmetric 1,4-Addition of Aryl- and Alkenylboronic Acids to Enones. <i>Journal of the American Chemical Society</i> , 1998, 120, 5579-5580. | 14.2 | 681 |
| 3 | Catalytic Cycle of Rhodium-Catalyzed Asymmetric 1,4-Addition of Organoboronic Acids. Arylrhodium, Oxa- π -allylrhodium, and Hydroxorhodium Intermediates. <i>Journal of the American Chemical Society</i> , 2002, 124, 5052-5058. | 14.2 | 583 |
| 4 | Chiral Monodentate Phosphine Ligand MOP for Transition-Metal-Catalyzed Asymmetric Reactions. <i>Accounts of Chemical Research</i> , 2000, 33, 354-362. | 16.1 | 491 |
| 5 | A Chiral Chelating Diene as a New Type of Chiral Ligand for Transition Metal Catalysts: Its Preparation and Use for the Rhodium-Catalyzed Asymmetric 1,4-Addition. <i>Journal of the American Chemical Society</i> , 2003, 125, 11508-11509. | 14.2 | 449 |
| 6 | C2-Symmetric Bicyclo[2.2.2]octadienes as Chiral Ligands: Their High Performance in Rhodium-Catalyzed Asymmetric Arylation of N-Tosylarylimines. <i>Journal of the American Chemical Society</i> , 2004, 126, 13584-13585. | 14.2 | 407 |
| 7 | Rhodium-Catalyzed Hydroarylation of Alkynes with Arylboronic Acids: 1,4-Shift of Rhodium from 2-Aryl-1-alkenylrhodium to 2-Alkenylarylrhodium Intermediate. <i>Journal of the American Chemical Society</i> , 2001, 123, 9918-9919. | 14.2 | 318 |
| 8 | Asymmetric synthesis catalyzed by chiral ferrocenylphosphine-transition-metal complexes. 6. Practical asymmetric synthesis of 1,1'-binaphthyls via asymmetric cross-coupling with a chiral [(alkoxyalkyl)ferrocenyl]monophosphine/nickel catalyst. <i>Journal of the American Chemical Society</i> , 1988, 110, 8153-8156. | 14.2 | 308 |
| 9 | Generation of Tertiary Phosphine-Coordinated Pd(0) Species from Pd(OAc) ₂ in the Catalytic Heck Reaction. <i>Chemistry Letters</i> , 1992, 21, 2177-2180. | 1.4 | 238 |
| 10 | Catalytic Asymmetric Wacker-Type Cyclization. <i>Journal of the American Chemical Society</i> , 1997, 119, 5063-5064. | 14.2 | 229 |
| 11 | Rhodium-Catalyzed Asymmetric Arylation of Imines with Organostannanes. Asymmetric Synthesis of Diarylmethylamines. <i>Journal of the American Chemical Society</i> , 2000, 122, 976-977. | 14.2 | 229 |
| 12 | Catalytic Asymmetric Arylative Cyclization of Alkynals: Phosphine-Free Rhodium/Diene Complexes as Efficient Catalysts. <i>Journal of the American Chemical Society</i> , 2005, 127, 54-55. | 14.2 | 222 |
| 13 | Chiral (β -aminoalkyl)phosphines. Highly efficient phosphine ligands for catalytic asymmetric Grignard cross-coupling. <i>Journal of Organic Chemistry</i> , 1983, 48, 2195-2202. | 3.3 | 221 |
| 14 | Preparation of C2-Symmetric Bicyclo[2.2.2]octa-2,5-diene Ligands and Their Use for Rhodium-Catalyzed Asymmetric 1,4-Addition of Arylboronic Acids. <i>Journal of Organic Chemistry</i> , 2005, 70, 2503-2508. | 3.3 | 220 |
| 15 | Rhodium-Catalyzed Asymmetric Construction of Quaternary Carbon Stereocenters: Ligand-Dependent Regiocontrol in the 1,4-Addition to Substituted Maleimides. <i>Journal of the American Chemical Society</i> , 2006, 128, 5628-5629. | 14.2 | 210 |
| 16 | Asymmetric Synthesis of (Triaryl)methylamines by Rhodium-Catalyzed Addition of Arylboroxines to Cyclic N-Sulfonyl Ketimines. <i>Journal of the American Chemical Society</i> , 2012, 134, 5056-5059. | 14.2 | 209 |
| 17 | Rhodium-Catalyzed Asymmetric Conjugate Addition of Organoboronic Acids to Nitroalkenes. <i>Journal of the American Chemical Society</i> , 2000, 122, 10716-10717. | 14.2 | 201 |
| 18 | Rhodium-Catalyzed Asymmetric 1,4-Addition to 1-Alkenylphosphonates. <i>Journal of the American Chemical Society</i> , 1999, 121, 11591-11592. | 14.2 | 191 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Catalytic asymmetric synthesis of axially chiral biaryls by palladium-catalyzed enantioselective cross-coupling. Journal of the American Chemical Society, 1995, 117, 9101-9102. | 14.2 | 189 |
| 20 | Rhodium-Catalyzed Asymmetric Arylation/Defluorination of 1-(Trifluoromethyl)alkenes Forming Enantioenriched 1,1-Difluoroalkenes. Journal of the American Chemical Society, 2016, 138, 12340-12343. | 14.2 | 180 |
| 21 | Electronic and steric tuning of chiral diene ligands for rhodium-catalyzed asymmetric arylation of imines. Chemical Communications, 2009, , 4815. | 4.2 | 175 |
| 22 | Rhodium-Catalyzed Asymmetric 1,4-Addition of Organoboron Reagents to 5,6-Dihydro-2(1H)-pyridinones. Asymmetric Synthesis of 4-Aryl-2-piperidinones. Journal of Organic Chemistry, 2001, 66, 6852-6856. | 3.3 | 174 |
| 23 | Palladium-Catalyzed Asymmetric Hydrosilylation of 4-Substituted 1-Buten-3-yne. Catalytic Asymmetric Synthesis of Axially Chiral Allenylsilanes. Journal of the American Chemical Society, 2001, 123, 12915-12916. | 14.2 | 167 |
| 24 | The concise synthesis of chiral tfb ligands and their application to the rhodium-catalyzed asymmetric arylation of aldehydes. Chemical Communications, 2009, , 5713. | 4.2 | 151 |
| 25 | Retention of Regiochemistry of Allylic Esters in Palladium-Catalyzed Allylic Alkylation in the Presence of a MOP Ligand. Journal of the American Chemical Society, 1998, 120, 1681-1687. | 14.2 | 150 |
| 26 | High Enantioselectivity in Rhodium-Catalyzed Allylic Alkylation of 1-Substituted 2-Propenyl Acetates. Organic Letters, 2003, 5, 1713-1715. | 4.8 | 149 |
| 27 | Asymmetric Synthesis of Triarylmethanes by Rhodium-Catalyzed Enantioselective Arylation of Diarylmethylamines with Arylboroxines. Journal of the American Chemical Society, 2015, 137, 7556-7559. | 14.2 | 142 |
| 28 | Rhodium-Catalyzed Asymmetric Arylation of <i>N</i> -Tosyl Ketimines. Journal of the American Chemical Society, 2010, 132, 13168-13169. | 14.2 | 141 |
| 29 | Arylmagnesiation of Alkynes Catalyzed Cooperatively by Iron and Copper Complexes. Journal of the American Chemical Society, 2005, 127, 17164-17165. | 14.2 | 138 |
| 30 | Nickel-Catalyzed Asymmetric Grignard Cross-Coupling of Dinaphthothiophene Giving Axially Chiral 1,1'-Binaphthyls. Journal of the American Chemical Society, 2002, 124, 13396-13397. | 14.2 | 135 |
| 31 | Simple Chiral Diene Ligands Provide High Enantioselectivities in Transition-Metal-Catalyzed Conjugate Addition Reactions. Organic Letters, 2008, 10, 4387-4389. | 4.8 | 135 |
| 32 | Palladium-Catalyzed Asymmetric Synthesis of Axially Chiral Allenes: A Synergistic Effect of Dibenzalacetone on High Enantioselectivity. Journal of the American Chemical Society, 2001, 123, 2089-2090. | 14.2 | 133 |
| 33 | Rhodium-Catalyzed Asymmetric Synthesis of Spirocarbocycles: Arylboron Reagents as Surrogates of 1,2-Dimetalloarenes. Angewandte Chemie - International Edition, 2010, 49, 3795-3798. | 14.2 | 128 |
| 34 | Iridium/Chiral Diene-Catalyzed Asymmetric 1,6-Addition of Arylboroxines to $\alpha,\beta,\gamma,\delta$ -Unsaturated Carbonyl Compounds. Journal of the American Chemical Society, 2010, 132, 7872-7873. | 14.2 | 128 |
| 35 | A New Entry of Nucleophiles in Rhodium-Catalyzed Asymmetric 1,4-Addition Reactions: Addition of Organozinc Reagents for the Synthesis of 2-Aryl-4-piperidones. Journal of the American Chemical Society, 2004, 126, 6240-6241. | 14.2 | 127 |
| 36 | Highly Chemo- and Enantioselective Arylative Cyclization of Alkyne-Tethered Electron-Deficient Olefins Catalyzed by Rhodium Complexes with Chiral Dienes. Angewandte Chemie - International Edition, 2005, 44, 3909-3912. | 14.2 | 126 |

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|----|---|------|-----------|
| 37 | Rhodium-Catalyzed Asymmetric 1,6-Addition of Aryltitanates to Enynones Giving Axially Chiral Allenes. <i>Organic Letters</i> , 2004, 6, 305-307. | 4.8 | 124 |
| 38 | Asymmetric functionalization of bicycloalkenes by catalytic enantioselective hydrosilylation. <i>Tetrahedron Letters</i> , 1992, 33, 7185-7188. | 1.4 | 119 |
| 39 | Deuterium-Labeling Studies Establishing Stereochemistry at the Oxypalladation Step in Wacker-Type Oxidative Cyclization of an <i>o</i> -Allylphenol. <i>Journal of the American Chemical Society</i> , 2004, 126, 3036-3037. | 14.2 | 119 |
| 40 | Asymmetric Synthesis of <i>P</i> -Stereogenic Diarylphosphinites by Palladium-Catalyzed Enantioselective Addition of Diarylphosphines to Benzoquinones. <i>Journal of the American Chemical Society</i> , 2014, 136, 4865-4868. | 14.2 | 119 |
| 41 | Asymmetric Synthesis of Diarylmethyl Amines by Rhodium-Catalyzed Asymmetric Addition of Aryl Titanium Reagents to Imines. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6125-6128. | 14.2 | 117 |
| 42 | Hydroxorhodium/Chiral Diene Complexes as Effective Catalysts for the Asymmetric Arylation of <i>3</i> -Aryl- <i>2</i> -hydroxyisoindolinones. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1777-1780. | 14.2 | 115 |
| 43 | Nickel-Catalyzed Three-Component Domino Reactions of Aryl Grignard Reagents, Alkynes, and Aryl Halides Producing Tetrasubstituted Alkenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 3189-3192. | 14.2 | 115 |
| 44 | C2-Symmetric bicyclo[3.3.1]nona-2,6-diene and bicyclo[3.3.2]deca-2,6-diene: new chiral diene ligands based on the 1,5-cyclooctadiene framework. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 1673-1679. | 1.8 | 108 |
| 45 | Iron-Catalyzed Arylmagnesiation of Aryl(alkyl)acetylenes in the Presence of an <i>N</i> -Heterocyclic Carbene Ligand. <i>Organic Letters</i> , 2007, 9, 1045-1048. | 4.8 | 108 |
| 46 | Asymmetric Hydrosilylation of Styrenes Catalyzed by Palladium-MOP Complexes: Ligand Modification and Mechanistic Studies. <i>Journal of Organic Chemistry</i> , 2001, 66, 1441-1449. | 3.3 | 106 |
| 47 | Rhodium-Catalyzed Asymmetric Addition of Potassium Organotrifluoroborates to <i>N</i> -Sulfonyl Ketimines. <i>Organic Letters</i> , 2011, 13, 2977-2979. | 4.8 | 104 |
| 48 | Rhodium-Catalyzed Asymmetric 1,6-Addition of Aryl Zinc Reagents to Dienones. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4224-4227. | 14.2 | 103 |
| 49 | High Performance of a Palladium Phosphinooxazoline Catalyst in the Asymmetric Arylation of Cyclic <i>N</i> -Sulfonyl Ketimines. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9936-9939. | 14.2 | 103 |
| 50 | Enantiomerically Pure Rhodium Complexes Bearing 1,5-Diphenyl-1,5-cyclooctadiene as a Chiral Diene Ligand. Their Use as Catalysts for Asymmetric 1,4-Addition of Phenylzinc Chloride. <i>Organic Letters</i> , 2005, 7, 5889-5892. | 4.8 | 100 |
| 51 | Cationic Palladium/Boxax Complexes for Catalytic Asymmetric Wacker-Type Cyclization. <i>Journal of Organic Chemistry</i> , 1998, 63, 5071-5075. | 3.3 | 92 |
| 52 | Asymmetric synthesis of axially chiral 1,1'-bi- and 1,1'-ternaphthalenes by asymmetric cross-coupling with a chiral ferrocenylphosphine-nickel catalyst. <i>Tetrahedron Letters</i> , 1989, 30, 215-218. | 1.4 | 91 |
| 53 | Rhodium-Catalyzed Asymmetric 1,4-Addition of Aryltitanium Reagents Generating Chiral Titanium Enolates: Isolation as Silyl Enol Ethers. <i>Journal of the American Chemical Society</i> , 2002, 124, 12102-12103. | 14.2 | 91 |
| 54 | Rhodium-catalyzed Synthesis of Indenols by Regioselective Coupling of Alkynes with Ortho-carbonylated Arylboronic Acids. <i>Chemistry Letters</i> , 2005, 34, 1294-1295. | 1.4 | 88 |

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|----|---|------|-----------|
| 55 | Rhodium-Catalyzed Asymmetric Synthesis of 3,3-Disubstituted 1-Indanones. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3735-3737. | 14.2 | 87 |
| 56 | Catalytic asymmetric hydrosilylation of ketones with new chiral ferrocenylphosphine-imine ligands. <i>Tetrahedron: Asymmetry</i> , 1995, 6, 2503-2506. | 1.8 | 83 |
| 57 | 2,2'-Bis(diphenylphosphino)-1,1'-biphenyl: A New Entry of Bidentate Triarylphosphine Ligand to Transition Metal Catalysts. <i>Organometallics</i> , 2000, 19, 1567-1571. | 2.5 | 83 |
| 58 | Rhodium/diene-catalyzed tandem 1,4-shift/1,4-addition of (E)-1,2-diphenylethenylboronic acid to enones: density functional theory modeling and asymmetric catalysis. <i>Chemical Science</i> , 2012, 3, 1278. | 7.6 | 83 |
| 59 | Chiral β^2 -dimethylaminoalkylphosphines. Highly efficient ligands for a nickel complex catalyzed asymmetric grignard cross-coupling reaction. <i>Tetrahedron Letters</i> , 1980, 21, 79-82. | 1.4 | 81 |
| 60 | Rhodium-Catalyzed Asymmetric Addition of Arylboronic Acids to β^2 -Phthaliminoacrylate Esters toward the Synthesis of β^2 -Amino Acids. <i>Journal of the American Chemical Society</i> , 2010, 132, 464-465. | 14.2 | 81 |
| 61 | Gold(I)-catalyzed asymmetric aldol reactions of fluorinated benzaldehydes with an α^2 -isocyanoacetamide. <i>Tetrahedron: Asymmetry</i> , 1994, 5, 1091-1094. | 1.8 | 80 |
| 62 | Highly Selective 1,6-Addition of Aryl Boronic Acids to $\alpha^2, \beta^3, \gamma^2$ -Unsaturated Carbonyl Compounds Catalyzed by an Iridium Complex. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5164-5166. | 14.2 | 77 |
| 63 | Modification of Chiral Monodentate Phosphine Ligands (MOP) for Palladium-Catalyzed Asymmetric Hydrosilylation of Cyclic 1,3-Dienes. <i>Advanced Synthesis and Catalysis</i> , 2001, 343, 279-283. | 4.4 | 75 |
| 64 | Gold(I)-catalyzed asymmetric aldol reactions of isocyanoacetic acid derivatives with fluoroaryl aldehydes. <i>Tetrahedron</i> , 1996, 52, 245-254. | 2.0 | 74 |
| 65 | Gold(I)-catalyzed asymmetric aldol reaction of methyl isocyanoacetate with fluorinated benzaldehydes. <i>Tetrahedron Letters</i> , 1994, 35, 2713-2716. | 1.4 | 73 |
| 66 | Rhodium-Catalyzed Hydroalkynylation of Internal Alkynes with Silylacetylenes: An Alkynylrhodium(I) Intermediate Generated from the Hydroxorhodium(I) Complex $[\text{Rh}(\text{OH})(\text{binap})]_2$. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 2669-2672. | 4.4 | 73 |
| 67 | Rhodium-Catalyzed Addition of Arylzinc Reagents to Aryl Alkynyl Ketones: Synthesis of β^2, β^2 -Disubstituted Indanones. <i>Organic Letters</i> , 2005, 7, 2071-2073. | 4.8 | 72 |
| 68 | Palladium-Catalyzed Heck and Carbonylation Reactions of a Dinaphthaleneiodonium Salt Forming Functionalized 2-Iodo-1,1'-binaphthyls. <i>Advanced Synthesis and Catalysis</i> , 2004, 346, 1728-1732. | 4.4 | 69 |
| 69 | Asymmetric Polymerization of Achiral Arylacetylenes Giving Helical Polyacetylenes in the Presence of a Rhodium Catalyst with a Symmetric Tetrafluorobenzobarreleene Ligand. <i>Organometallics</i> , 2009, 28, 4890-4893. | 2.5 | 68 |
| 70 | A New Approach to Axially Chiral Bipyridine, N,N -Dioxides Bearing Aromatic Substituents and their Use for Catalytic Asymmetric Allylation of Aldehydes with Allyl(trichloro)silane. <i>Advanced Synthesis and Catalysis</i> , 2004, 346, 1169-1174. | 4.4 | 67 |
| 71 | Asymmetric synthesis of gem-diaryl substituted cyclic sulfamidates and sulfamides by rhodium-catalyzed arylation of cyclic ketimines. <i>Chemical Communications</i> , 2013, 49, 5504. | 4.2 | 67 |
| 72 | Rhodium-Catalyzed Asymmetric Hydroarylation of 3-Pyrrolines Giving 3-Arylpyrrolidines: Protonation as a Key Step. <i>Journal of the American Chemical Society</i> , 2013, 135, 10990-10993. | 14.2 | 66 |

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|----|--|------|-----------|
| 73 | Asymmetric Conjugate Alkynylation of Cyclic α,β -Unsaturated Carbonyl Compounds with a Chiral Diene Rhodium Catalyst. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1133-1137. | 14.2 | 65 |
| 74 | Asymmetric 1,4-Addition of Organoboron Reagents to Quinone Monoketals Catalyzed by a Chiral Diene/Rhodium Complex: A New Synthetic Route to Enantioenriched 2-Aryltetralones. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 513-516. | 4.4 | 63 |
| 75 | Dynamic Kinetic Resolution in Rhodium-Catalyzed Asymmetric Arylation of Phospholene Oxides. <i>Journal of the American Chemical Society</i> , 2017, 139, 8122-8125. | 14.2 | 63 |
| 76 | Asymmetric aza-Claisen rearrangement of allyl imidates catalyzed by homochiral cationic palladium(II) complexes. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 1065-1072. | 1.8 | 61 |
| 77 | A Novel Chiral Phosphino-Phosphaferrocene: Its Coordination Behavior and Application to Palladium-Catalyzed Asymmetric Allylic Alkylation. <i>Organometallics</i> , 2001, 20, 3913-3917. | 2.5 | 60 |
| 78 | Rhodium-Catalyzed Asymmetric Arylation of Allyl Sulfones under the Conditions of Isomerization into Alkenyl Sulfones. <i>Journal of the American Chemical Society</i> , 2015, 137, 3201-3204. | 14.2 | 52 |
| 79 | Palladium-Catalyzed Enantioselective Carbonylative Cyclization of Aryl and Alkenyl Triflates with Carbon Monoxide. <i>Organic Letters</i> , 1999, 1, 1487-1489. | 4.8 | 51 |
| 80 | Asymmetric Synthesis of Axially Chiral α -Aminoaryls by Rhodium-Catalyzed Benzannulation of α -Arylalkynes with α -Cyanomethylphenylboronates. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10368-10372. | 14.2 | 50 |
| 81 | Dichloro[(2-dimethylamino)propyldiphenylphosphine]palladium(II) (PdCl ₂ (alaphos)): An Efficient Catalyst for Cross-Coupling of Aryl Triflates with Alkynyl Grignard Reagents. <i>Journal of Organic Chemistry</i> , 1998, 63, 8922-8925. | 3.3 | 49 |
| 82 | Synthesis and Characterization of a Novel Chiral Phosphole and Its Derivatives. <i>Organometallics</i> , 2001, 20, 1014-1019. | 2.5 | 49 |
| 83 | Asymmetric 1,4-addition of phenylboronic acid to 2-cyclohexenone catalyzed by Rh(I)/binap complexes. <i>Journal of the American Chemical Society</i> , 2000, 12, 469-471. | | 46 |
| 84 | Iridium-Catalyzed [3 + 2] Annulation of 1,3-Dienes with ortho-Carbonylated Phenylboronic Acids. A Catalytic Process Involving Regioselective 1,2-Addition. <i>Journal of the American Chemical Society</i> , 2007, 129, 7506-7507. | 14.2 | 45 |
| 85 | Rhodium-Catalyzed Asymmetric Cycloisomerization of 1,6-Diene- γ -namides. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 1374-1382. | 4.4 | 45 |
| 86 | Effects of Bidentate Phosphine Ligands on α -Allylpalladium Complexes. <i>Organometallics</i> , 2002, 21, 4853-4861. | 2.5 | 44 |
| 87 | Rhodium-Catalyzed Enantioselective Hydroarylation of Divinylphosphine Oxides with Aryl Boroxines. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1702-1706. | 14.2 | 44 |
| 88 | Base-Free Conditions for Rhodium-Catalyzed Asymmetric Arylation To Produce Stereochemically Labile α -Aryl Ketones. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6739-6743. | 14.2 | 43 |
| 89 | Palladium-Catalyzed Asymmetric Allylic Alkylations of Colby Pro-Enolates with MBH Carbonates: Enantioselective Access to Quaternary α -F Oxindoles. <i>Chemistry - A European Journal</i> , 2018, 24, 8994-8998. | 3.4 | 42 |
| 90 | Chloroprene as a Source of Fine Chemicals: Palladium-Catalyzed Synthesis of Terminal Allenes. <i>Organic Letters</i> , 2001, 3, 2615-2617. | 4.8 | 39 |

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|-----|--|------|-----------|
| 91 | Preparation of Enantiomerically Pure 2 ⁻ -Substituted 2-Diphenylphosphino-1,1 ⁻ -binaphthyls by Reductive Cleavage of the Carbon ⁻ Phosphorus Bond in a Borane Complex of 2-Diphenylphosphino-2 ⁻ -diphenylphosphinyl-1,1 ⁻ -binaphthyl. <i>Journal of Organic Chemistry</i> , 2001, 66, 8854-8858. | 3.3 | 39 |
| 92 | Synthesis of 1,1 ⁻ -Diphospha[4]ferrocenophanes by Molybdenum-Catalyzed Ring-Closing Metathesis. <i>Organometallics</i> , 2003, 22, 1174-1176. | 2.5 | 39 |
| 93 | Enantioselective Synthesis of 3,3 ⁻ -Diaryla ⁻ SPINOLs: Rhodium ⁻ Catalyzed Asymmetric Arylation/BF ₃ ⁻ -Promoted Spirocyclization Sequence. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2474-2478. | 14.2 | 39 |
| 94 | Preparation of New Ferrocenylmonophosphine Ligands Containing Two Planar Chiral Ferrocenyl Moieties and Their Use for Palladium-Catalyzed Asymmetric Hydrosilylation of 1,3-Dienes. <i>Helvetica Chimica Acta</i> , 2002, 85, 3848-3854. | 1.6 | 37 |
| 95 | Modified Amino Acid ⁻ Derived Phosphine ⁻ Imine Ligands for Palladium ⁻ Catalyzed Asymmetric Arylation of Cyclic <i>N</i> ⁻ Sulfonyl Imines. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 1969-1975. | 4.4 | 37 |
| 96 | Highly enantioselective 1,4-addition of arylzinc reagents to 3-arylpropenals catalyzed by a rhodium ⁻ binap complex in the presence of chlorotrimethylsilane. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 607-613. | 1.8 | 36 |
| 97 | Asymmetric conjugate addition of cis-2-arylethenylboronic acids catalyzed by chiral diene/rhodium complexes: 1,4-rhodium shift from alkenylrhodium to arylrhodium intermediates. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 373-380. | 1.8 | 36 |
| 98 | Synthesis of Arylacetals by Iridium ⁻ Catalyzed Arylation of Vinylene Carbonate with Arylboronic Acids. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11054-11057. | 14.2 | 34 |
| 99 | Rhodium(I)-Catalyzed Asymmetric Addition of Organometallic Reagents to Electron-Deficient Olefins. , 2005, , 55-77. | | 33 |
| 100 | Aryloxymethyltrifluoroborates for Rhodium-Catalyzed Asymmetric Conjugate Arylation. <i>Methoxyarylation through 1,4-Rhodium Shift</i> . <i>Organic Letters</i> , 2016, 18, 6452-6455. | 4.8 | 28 |
| 101 | Rhodium/Chiral Diene-Catalyzed Asymmetric Cyclopolymerization of Achiral 1,8-Diynes. <i>Organometallics</i> , 2011, 30, 2342-2348. | 2.5 | 25 |
| 102 | Palladium ⁻ Catalyzed Asymmetric Arylation of Trifluoromethylated/Perfluoroalkylated 2 ⁻ Quinazolinones with High Enantioselectivity. <i>Chemistry - A European Journal</i> , 2016, 22, 13068-13071. | 3.4 | 25 |
| 103 | Stereochemistry in Palladium-Catalyzed Cyclization Forming a Vinylidihydrofuran via a π -Allylpalladium Intermediate. <i>Journal of Organic Chemistry</i> , 1997, 62, 204-207. | 3.3 | 22 |
| 104 | Induction of Atropisomeric Chirality on Heavily Substituted Phosphametalloenes. <i>Organometallics</i> , 2003, 22, 1783-1786. | 2.5 | 22 |
| 105 | Palladium-catalyzed asymmetric hydrosilylation of styrenes with trichlorosilane. <i>Tetrahedron: Asymmetry</i> , 2014, 25, 479-484. | 1.8 | 22 |
| 106 | Synthesis and Characterization of 1,1 ⁻ -Diphospharuthenocenes. <i>Organometallics</i> , 2002, 21, 3062-3065. | 2.5 | 21 |
| 107 | Synthesis, circular dichroism, and absolute stereochemistry of 1,1 ⁻ :4 ⁻ :1 ⁻ -ternaphthalene compounds. <i>Chirality</i> , 1997, 9, 623-625. | 2.6 | 20 |
| 108 | Synthesis of Planar Chiral Shvo Catalysts for Asymmetric Transfer Hydrogenation. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 1054-1058. | 4.4 | 20 |

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|-----|---|------|-----------|
| 109 | Asymmetric Synthesis of Fluorinated Allenes by Rhodium-Catalyzed Enantioselective Alkylation/Defluorination of Propargyl Difluorides with Alkylzincs. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20771-20775. | 14.2 | 20 |
| 110 | Palladium(Ti)-Catalyzed Claisen Rearrangement of 1-Phenylethenyl 2-Propenyl Ethers. <i>Synthetic Communications</i> , 1989, 19, 2109-2115. | 2.1 | 18 |
| 111 | β -Methylidene- γ -valerolactones as a coupling partner for cycloaddition: Palladium-catalyzed [4+3] cycloaddition with nitrones. <i>Pure and Applied Chemistry</i> , 2008, 80, 1135-1140. | 1.9 | 17 |
| 112 | Rhodium-Catalyzed Arylzincation of Alkynes: Ligand Control of 1,4-Migration Selectivity. <i>Organic Letters</i> , 2018, 20, 6188-6192. | 4.8 | 17 |
| 113 | Highly Enantioselective Synthesis of Monofluoroalkenes by Rhodium-Catalyzed Asymmetric Arylation/Defluorination of Allyl Difluorides. <i>Organic Letters</i> , 2020, 22, 8413-8418. | 4.8 | 17 |
| 114 | Title is missing!. <i>Catalysis Surveys From Asia</i> , 1999, 3, 127-135. | 1.2 | 16 |
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