

# Xumu Zhang

## List of Publications by Year in descending order

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437  
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24,677  
citations

6613

79  
h-index

14208

128  
g-index

549  
all docs

549  
docs citations

549  
times ranked

9712  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Chiral Phosphorus Ligands for Enantioselective Hydrogenation. <i>Chemical Reviews</i> , 2003, 103, 3029-3070.	47.7	2,231
2	Highly Enantioselective Ag(I)-Catalyzed [3 + 2] Cycloaddition of Azomethine Ylides. <i>Journal of the American Chemical Society</i> , 2002, 124, 13400-13401.	13.7	357
3	Asymmetric [3 + 2] Cycloaddition of 2,3-Butadienoates with Electron-Deficient Olefins Catalyzed by Novel Chiral 2,5-Dialkyl-7-phenyl-7-phosphabicyclo[2.2.1]heptanes. <i>Journal of the American Chemical Society</i> , 1997, 119, 3836-3837.	13.7	342
4	Developing Chiral Ligands for Asymmetric Hydrogenation. <i>Accounts of Chemical Research</i> , 2007, 40, 1278-1290.	15.6	301
5	A Chiral 1,2-Bisphospholane Ligand with a Novel Structural Motif: Applications in Highly Enantioselective Rh-Catalyzed Hydrogenations. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1612-1614.	13.8	285
6	Highly Enantioselective Hydrogenation of Acyclic Imines Catalyzed by Ir-f-Binaphane Complexes. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3425-3428.	13.8	280
7	Pd-Catalyzed Asymmetric Hydrogenation of Unprotected Indoles Activated by Brønsted Acids. <i>Journal of the American Chemical Society</i> , 2010, 132, 8909-8911.	13.7	263
8	Synthesis of Chiral Bisphosphines with Tunable Bite Angles and Their Applications in Asymmetric Hydrogenation of $\beta^2$ -Ketoesters. <i>Journal of Organic Chemistry</i> , 2000, 65, 6223-6226.	3.2	246
9	Highly Enantioselective Hydrogenation of Simple Ketones Catalyzed by a Rh-PennPhos Complex. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1100-1103.	13.8	219
10	Spiro[4,4]nonadiene-Based Phosphine-Oxazoline Ligands for Iridium-Catalyzed Enantioselective Hydrogenation of Ketimines. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5345-5349.	13.8	216
11	Chiral Brønsted Acid Catalyzed Asymmetric Baeyer-Villiger Reaction of $\beta$ -Substituted Cyclobutanones by Using Aqueous $H_2O_2$ . <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2840-2843.	13.8	205
12	Highly Effective Chiral Ortho-Substituted BINAPO Ligands (o-BINAPO): Applications in Ru-Catalyzed Asymmetric Hydrogenations of $\beta^2$ -Aryl-Substituted $\beta^2$ -(Acylamino)acrylates and $\beta^2$ -Keto Esters. <i>Journal of the American Chemical Society</i> , 2002, 124, 4952-4953.	13.7	203
13	Synthesis and X-ray Crystal Structures of Palladium(II) and Platinum(II) Complexes of the PCP-Type Chiral Tridentate Ligand (1R,1 $\bar{R}$ )-1,3-Bis[1-(diphenylphosphino)ethyl]benzene. Use in the Asymmetric Aldol Reaction of Methyl Isocyanacetate and Aldehydes. <i>Organometallics</i> , 1998, 17, 4374-4379.	2.3	202
14	A New Chiral Bis(oxazolinylmethyl)amine Ligand for Ru-Catalyzed Asymmetric Transfer Hydrogenation of Ketones. <i>Journal of the American Chemical Society</i> , 1998, 120, 3817-3818.	13.7	199
15	A Hybrid Phosphorus Ligand for Highly Enantioselective Asymmetric Hydroformylation. <i>Journal of the American Chemical Society</i> , 2006, 128, 7198-7202.	13.7	199
16	A Functional Model Related to Cytochrome c Oxidase and Its Electrocatalytic Four-Electron Reduction of $O_2$ . <i>Science</i> , 1997, 275, 949-951.	12.6	193
17	Transmetalation of Palladium Enolate and Its Application in Palladium-Catalyzed Homocoupling of Alkynes: A Room-Temperature, Highly Efficient Route To Make Diynes. <i>Journal of Organic Chemistry</i> , 2002, 67, 1969-1971.	3.2	186
18	A Highly Enantioselective, Pd-TangPhos-Catalyzed Hydrogenation of N-Tosylimines. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3832-3835.	13.8	179

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19	Development of New Chiral P,N Ligands and Their Application in the Cu-Catalyzed Enantioselective Conjugate Addition of Diethylzinc to Enones. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3518-3521.	13.8	178
20	Highly Enantioselective Reductive Amination of Simple Aryl Ketones Catalyzed by Ir <sup>III</sup> -BINAP in the Presence of Titanium(IV) Isopropoxide and Iodine. <i>Journal of Organic Chemistry</i> , 2003, 68, 4120-4122.	3.2	172
21	Triazole-Based Monophosphine Ligands for Palladium-Catalyzed Cross-Coupling Reactions of Aryl Chlorides. <i>Journal of Organic Chemistry</i> , 2006, 71, 3928-3934.	3.2	172
22	Enantioselective Hydrogenation of N <sup>H</sup> Imines. <i>Journal of the American Chemical Society</i> , 2009, 131, 9882-9883.	13.7	171
23	Practical P-Chiral Phosphane Ligand for Rh-Catalyzed Asymmetric Hydrogenation. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 646-649.	2.4	166
24	A Bisphosphine Ligand with Stereogenic Phosphorus Centers for the Practical Synthesis of $\beta$ -Aryl- $\beta$ -Amino Acids by Asymmetric Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3509-3511.	13.8	161
25	Enantioselective Hydrogenation of Tetrasubstituted Olefins of Cyclic $\beta$ -(Acylamino)acrylates. <i>Journal of the American Chemical Society</i> , 2003, 125, 9570-9571.	13.7	158
26	Highly Efficient Asymmetric Synthesis of $\beta$ -Amino Acid Derivatives via Rhodium-Catalyzed Hydrogenation of $\beta$ -(Acylamino)acrylates. <i>Journal of Organic Chemistry</i> , 1999, 64, 6907-6910.	3.2	154
27	Synthesis of Chiral Hydroxyl Phospholanes from mannitol and Their Use in Asymmetric Catalytic Reactions. <i>Journal of Organic Chemistry</i> , 2000, 65, 3489-3496.	3.2	150
28	Asymmetric hydrogenation catalyzed by first-row transition metal complexes. <i>Chemical Society Reviews</i> , 2021, 50, 3211-3237.	38.1	147
29	Synthesis of a Novel Chiral Binaphthyl Phospholane and Its Application in the Highly Enantioselective Hydrogenation of Enamides. <i>Organic Letters</i> , 1999, 1, 1679-1681.	4.6	144
30	Rh-Catalyzed Enyne Cycloisomerization. <i>Journal of the American Chemical Society</i> , 2000, 122, 6490-6491.	13.7	144
31	Asymmetric Synthesis of Chiral Primary Amines by Ruthenium-Catalyzed Direct Reductive Amination of Alkyl Aryl Ketones with Ammonium Salts and Molecular H <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2018, 140, 2024-2027.	13.7	144
32	Rhodium-Catalyzed Direct Oxidative Carbonylation of Aromatic C-H Bond with CO and Alcohols. <i>Journal of the American Chemical Society</i> , 2009, 131, 729-733.	13.7	143
33	Highly Enantioselective Hydrogenation of Cyclic Enamides Catalyzed by a Rh-PennPhos Catalyst. <i>Journal of Organic Chemistry</i> , 1999, 64, 1774-1775.	3.2	141
34	Highly Enantioselective Syntheses of Functionalized $\alpha$ -Methylene- $\beta$ -butyrolactones via Rh(I)-catalyzed Intramolecular Alder Ene Reaction: Application to Formal Synthesis of (+)-Pilocarpine. <i>Journal of the American Chemical Society</i> , 2002, 124, 8198-8199.	13.7	139
35	Phospholane-Oxazoline Ligands for Ir-Catalyzed Asymmetric Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 943-946.	13.8	139
36	Triazole-Based Monophosphines for Suzuki-Miyaura Coupling and Amination Reactions of Aryl Chlorides. <i>Organic Letters</i> , 2005, 7, 4907-4910.	4.6	139

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37	Strong Brønsted acid promoted asymmetric hydrogenation of isoquinolines and quinolines catalyzed by a Rh <sup>+</sup> -thiourea chiral phosphine complex via anion binding. <i>Chemical Science</i> , 2016, 7, 3047-3051.	7.4	134
38	Rh-Catalyzed Asymmetric Hydrogenation of $\hat{1}\pm$ -Aryl Imino Esters: An Efficient Enantioselective Synthesis of Aryl Glycine Derivatives. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6360-6362.	13.8	132
39	Highly Efficient Synthesis of Chiral $\hat{1}^2$ -Amino Acid Derivatives via Asymmetric Hydrogenation. <i>Organic Letters</i> , 2002, 4, 4159-4161.	4.6	130
40	Direct catalytic asymmetric synthesis of $\hat{1}\pm$ -chiral primary amines. <i>Chemical Society Reviews</i> , 2020, 49, 6141-6153.	38.1	125
41	Highly Enantioselective Rh-Catalyzed Hydrogenations with a New Chiral 1,4-Bisphosphine Containing a Cyclic Backbone. <i>Journal of the American Chemical Society</i> , 1997, 119, 1799-1800.	13.7	124
42	Iridium <sup>+</sup> Monodentate Phosphoramidite-Catalyzed Asymmetric Hydrogenation of Substituted Benzophenone N <sup>+</sup> H Imines. <i>Journal of the American Chemical Society</i> , 2010, 132, 2124-2125.	13.7	123
43	Practical Synthesis of Enantiopure $\hat{1}$ -Amino Alcohols by Rhodium-Catalyzed Asymmetric Hydrogenation of $\hat{1}$ -Secondary-Amino Ketones. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1687-1689.	13.8	121
44	Cu(I)-Catalyzed Highly Exo-selective and Enantioselective [3 + 2] Cycloaddition of Azomethine Ylides with Acrylates. <i>Organic Letters</i> , 2005, 7, 4241-4244.	4.6	121
45	Highly Enantioselective Cycloisomerization of Enynes Catalyzed by Rhodium for the Preparation of Functionalized Lactams. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4526-4529.	13.8	118
46	A Novel Chiral Bisphosphine-Thiourea Ligand for Asymmetric Hydrogenation of $\hat{1}^2, \hat{1}^2$ -Disubstituted Nitroalkenes. <i>Organic Letters</i> , 2013, 15, 4014-4017.	4.6	118
47	Rhodium <sup>+</sup> Catalyzed Asymmetric Hydrogenation of Unprotected NH Imines Assisted by a Thiourea. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8467-8470.	13.8	117
48	Chiral Tridentate Ligands in Transition Metal-Catalyzed Asymmetric Hydrogenation. <i>Chemical Reviews</i> , 2021, 121, 7530-7567.	47.7	117
49	Highly Enantioselective Asymmetric Hydrogenation of $\hat{1}\pm$ -Phthalimide Ketone: An Efficient Entry to Enantiomerically Pure Amino Alcohols. <i>Journal of the American Chemical Society</i> , 2004, 126, 1626-1627.	13.7	116
50	Asymmetric Formation of Quaternary Carbon Centers Catalyzed by Novel Chiral 2,5-Dialkyl-7-phenyl-7-phosphabicyclo[2.2.1]heptanes. <i>Journal of Organic Chemistry</i> , 1998, 63, 5631-5635.	3.2	113
51	The First Highly Enantioselective Rh-Catalyzed Enyne Cycloisomerization. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 4104-4106.	13.8	111
52	A Highly Efficient and Enantioselective Access to Tetrahydroisoquinoline Alkaloids: Asymmetric Hydrogenation with an Iridium Catalyst. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10679-10681.	13.8	111
53	Iridium Catalysts with $\hat{1}$ -Amphox Ligands: Asymmetric Hydrogenation of Simple Ketones. <i>Organic Letters</i> , 2016, 18, 2938-2941.	4.6	110
54	Synthesis of (1,1 $\hat{1}^2$ )-2,6-bis[1-(diphenylphosphino)ethyl]pyridine and its application in asymmetric transfer hydrogenation. <i>Tetrahedron Letters</i> , 1996, 37, 797-800.	1.4	109

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55	Design and Synthesis of Chiral <i>oxa</i> -Spirocyclic Ligands for Ir-Catalyzed Direct Asymmetric Reduction of Bringmann's Lactones with Molecular H <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2018, 140, 8064-8068.	13.7	109
56	Asymmetric Hydrogenation of Itaconic Acid and Enol Acetate Derivatives with the Rh-TangPhos Catalyst. <i>Organic Letters</i> , 2003, 5, 205-207.	4.6	107
57	A Tetraphosphorus Ligand for Highly Regioselective Isomerization~Hydroformylation of Internal Olefins. <i>Journal of the American Chemical Society</i> , 2006, 128, 16058-16061.	13.7	107
58	Highly effective NPN-type tridentate ligands for asymmetric transfer hydrogenation of ketones. <i>Tetrahedron Letters</i> , 1997, 38, 215-218.	1.4	106
59	An Unexpected Phosphine-Catalyzed [3 + 2] Annulation. Synthesis of Highly Functionalized Cyclopentenes. <i>Organic Letters</i> , 2008, 10, 3267-3270.	4.6	103
60	Electron-Donating and Rigid P-Stereogenic Bisphospholane Ligands for Highly Enantioselective Rhodium-Catalyzed Asymmetric Hydrogenations. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6421-6424.	13.8	103
61	Synthesis of a New Class of Conformationally Rigid Phosphino-oxazolines: Highly Enantioselective Ligands for Ir-Catalyzed Asymmetric Hydrogenation. <i>Organic Letters</i> , 2004, 6, 513-516.	4.6	100
62	Highly Enantioselective Rh-Catalyzed Intramolecular Alder-Ene Reactions for the Syntheses of Chiral Tetrahydrofurans. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3457-3460.	13.8	99
63	Synthesis and Application of Modular Phosphine-Phosphoramidite Ligands in Asymmetric Hydroformylation: Structure-Selectivity Relationship. <i>Chemistry - A European Journal</i> , 2010, 16, 871-877.	3.3	99
64	Mechanistic Investigation of Chiral Phosphoric Acid Catalyzed Asymmetric Baeyer-Villiger Reaction of 3-Substituted Cyclobutanones with H <sub>2</sub> O <sub>2</sub> as the Oxidant. <i>Chemistry - A European Journal</i> , 2010, 16, 3021-3035.	3.3	95
65	Shape-selective olefin epoxidation catalyzed by manganese picnic basket porphyrins. <i>Journal of the American Chemical Society</i> , 1990, 112, 5356-5357.	13.7	94
66	Remdesivir Metabolite GS-441524 Effectively Inhibits SARS-CoV-2 Infection in Mouse Models. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 2785-2793.	6.4	92
67	Synthetic Analog for the Oxygen Binding Site in Cytochrome c Oxidase. <i>Journal of the American Chemical Society</i> , 1994, 116, 9783-9784.	13.7	91
68	Highly Enantioselective Hydrogenation of Cyclic Enol Acetates Catalyzed by a Rh-PennPhos Complex. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 516-518.	13.8	91
69	Dioxygen Binding in Iron and Cobalt Picnic Basket Porphyrins. <i>Journal of the American Chemical Society</i> , 1994, 116, 6245-6251.	13.7	89
70	Anortho-Substituted BIPHEP Ligand and Its Applications in Rh-Catalyzed Hydrogenation of Cyclic Enamides. <i>Organic Letters</i> , 2002, 4, 1695-1698.	4.6	89
71	Asymmetric Rh-Catalyzed Hydrogenation of Enamides with a Chiral 1,4-Bisphosphine Bearing Diphenylphosphino Groups. <i>Journal of Organic Chemistry</i> , 1998, 63, 9590-9593.	3.2	87
72	Highly efficient kinetic resolution of 2-cyclohexenyl acetate in Pd-catalyzed allylic alkylation. <i>Tetrahedron Letters</i> , 2000, 41, 5435-5439.	1.4	87

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73	Additive effects in Ir-catalyzed asymmetric hydrogenation of imines. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 2415-2418.	1.8	86
74	Highly Enantioselective Hydrogenation of Enol Acetates Catalyzed by Ru-TunaPhos Complexes. <i>Organic Letters</i> , 2002, 4, 4495-4497.	4.6	86
75	Rhodium-Catalyzed Asymmetric Hydroformylation of <i>N</i> -Allylamides: Highly Enantioselective Approach to $\beta$ -Amino Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4047-4050.	13.8	86
76	Asymmetric Hydrogenation of Pyridinium Salts with an Iridium Phosphole Catalyst. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12761-12764.	13.8	86
77	Asymmetric Hydrogenation of Pyridines: Enantioselective Synthesis of Nipecotic Acid Derivatives. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 4343-4347.	2.4	85
78	Practical Syntheses of $\beta$ -Amino Alcohols via Asymmetric Catalytic Hydrogenation. <i>Journal of Organic Chemistry</i> , 1998, 63, 8100-8101.	3.2	82
79	An efficient Rh-catalyst system for the intramolecular [4+2] and [5+2] cycloaddition reactions. <i>Tetrahedron Letters</i> , 2000, 41, 8041-8044.	1.4	82
80	Rhodium-Catalyzed Enantioselective Hydrogenation of Tetrasubstituted $\beta$ -Acetoxy $\beta$ -Enamido Esters: A New Approach to Chiral $\beta$ -Hydroxy- $\beta$ -amino Acid Derivatives. <i>Journal of the American Chemical Society</i> , 2014, 136, 16120-16123.	13.7	82
81	Nickel-catalyzed asymmetric hydrogenation of $\beta$ -acylamino nitroolefins: an efficient approach to chiral amines. <i>Chemical Science</i> , 2017, 8, 6419-6422.	7.4	82
82	Convenient Divergent Strategy for the Synthesis of TunePhos-Type Chiral Diphosphine Ligands and Their Applications in Highly Enantioselective Ru-Catalyzed Hydrogenations. <i>Journal of Organic Chemistry</i> , 2008, 73, 1143-1146.	3.2	81
83	Efficient Rhodium-Catalyzed Asymmetric Hydrogenation for the Synthesis of a New Class of <i>N</i> -Aryl $\beta$ -Amino Acid Derivatives. <i>Organic Letters</i> , 2005, 7, 5343-5345.	4.6	80
84	Spiro-2,2-bichroman-based bisoxazoline (SPANbox) ligands for ZnII-catalyzed enantioselective hydroxylation of $\beta$ -keto esters and 1,3-diesters. <i>Chemical Science</i> , 2011, 2, 1141.	7.4	80
85	Enantioselective epoxidation of unfunctionalized olefins catalyzed by threitol-strapped manganese porphyrins. <i>Journal of the American Chemical Society</i> , 1993, 115, 3834-3835.	13.7	79
86	Iridium-Catalyzed Asymmetric Hydrogenation of Ketones with Accessible and Modular Ferrocene-Based Amino-phosphine Acid (f-Ampha) Ligands. <i>Organic Letters</i> , 2017, 19, 690-693.	4.6	79
87	Asymmetric hydrosilylation of ketones catalyzed by ruthenium complexes with chiral tridentate ligands. <i>Journal of Organometallic Chemistry</i> , 1997, 547, 97-101.	1.8	77
88	Ru-BICP-Catalyzed Asymmetric Hydrogenation of Aromatic Ketones. <i>Journal of Organic Chemistry</i> , 1999, 64, 2127-2129.	3.2	77
89	A Chiral 1,2-Bisphospholane Ligand with a Novel Structural Motif: Applications in Highly Enantioselective Rh-Catalyzed Hydrogenations. <i>Angewandte Chemie</i> , 2002, 114, 1682-1684.	2.0	77
90	Efficient Synthesis of Chiral $\beta$ -Arylisopropylamines by Using Catalytic Asymmetric Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 800-802.	13.8	77

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91	Direct Asymmetric Reductive Amination for the Synthesis of Chiral $\beta$ -Arylamines. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5309-5312.	13.8	77
92	Cobalt-catalyzed highly enantioselective hydrogenation of $\beta,\beta$ -unsaturated carboxylic acids. <i>Nature Communications</i> , 2020, 11, 3239.	12.8	77
93	Highly Efficient and Highly Enantioselective Asymmetric Hydrogenation of Ketones with TunesPhos/1,2-Diamine $\pi$ -Ruthenium(II) Complexes. <i>Journal of Organic Chemistry</i> , 2009, 74, 1397-1399.	3.2	76
94	Congruent multiple Michael addition for the synthesis of biomimetic heme analogs. <i>Journal of the American Chemical Society</i> , 1994, 116, 2681-2682.	13.7	73
95	Synthesis of New Monodentate Spiro Phosphoramidite Ligand and Its Application in Rh-Catalyzed Asymmetric Hydrogenation Reactions. <i>Organic Letters</i> , 2004, 6, 3565-3567.	4.6	73
96	Cationic Palladium(II)-Catalyzed Highly Enantioselective [3 + 2] Annulation of 2-Acylarylboronic Acids with Substituted Alkynes. <i>Organic Letters</i> , 2007, 9, 5131-5133.	4.6	73
97	Synthesis of 3, 4-O-Isopropylidene- (3 <i>S</i> ,4 <i>S</i> )-dihydroxy-(2 <i>R</i> ,5 <i>R</i> )- bis(diphenylphosphino)hexane and Its Application in Rh-Catalyzed Highly Enantioselective Hydrogenation of Enamides. <i>Journal of Organic Chemistry</i> , 2000, 65, 5871-5874.	3.2	72
98	Synthesis of Triphosphorous Bidentate Phosphine $\pi$ -Phosphoramidite Ligands: Application in the Highly Enantioselective Hydrogenation of ortho-Substituted Aryl Enamides. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5515-5518.	13.8	72
99	Synthesis of Enamides via CuI-Catalyzed Reductive Acylation of Ketoximes with NaHSO <sub>3</sub> . <i>Journal of Organic Chemistry</i> , 2011, 76, 339-341.	3.2	72
100	Chiral C <sub>2</sub> -Symmetric Ligands with 1,4-Dioxane Backbone Derived from Tartrates: Syntheses and Applications in Asymmetric Hydrogenation. <i>Journal of Organic Chemistry</i> , 2002, 67, 7618-7623.	3.2	71
101	Synthesis of novel chiral binaphthyl phosphorus ligands and their applications in Rh-catalyzed asymmetric hydrogenation. <i>Tetrahedron Letters</i> , 2002, 43, 4849-4852.	1.4	71
102	Rhodium $\pi$ -Catalyzed Enantioselective and Diastereoselective Hydrogenation of $\beta$ -Ketoenamides: Efficient Access to <i>anti</i> -1,3 $\beta$ -Amino Alcohols. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6052-6054.	13.8	70
103	Highly Regioselective Hydroformylation of Styrene and Its Derivatives Catalyzed by Rh Complex with Tetraphosphorus Ligands. <i>Organic Letters</i> , 2009, 11, 241-244.	4.6	70
104	Highly Efficient Iridium-Catalyzed Asymmetric Hydrogenation of Unprotected $\beta$ -Enamine Esters. <i>Journal of the American Chemical Society</i> , 2010, 132, 12844-12846.	13.7	69
105	Direct Catalytic Asymmetric Reductive Amination of Simple Aromatic Ketones. <i>Organic Letters</i> , 2013, 15, 4354-4357.	4.6	69
106	Highly Enantioselective Cyclocarbonylation of Allylic Alcohols Catalyzed by Novel Pd-1,4-bisphosphine Complexes. <i>Journal of the American Chemical Society</i> , 1999, 121, 7708-7709.	13.7	68
107	Rhodium-Catalyzed Cycloisomerization of 1,6-Enynes with an Intramolecular Halogen Shift: Reaction Scope and Mechanism. <i>Journal of the American Chemical Society</i> , 2004, 126, 7601-7607.	13.7	68
108	Synthesis of chiral phosphine ligands with aromatic backbones and their applications in asymmetric catalysis. <i>Tetrahedron Letters</i> , 1997, 38, 1725-1728.	1.4	67



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109	Readily Accessible and Highly Efficient Ferrocene-Based Amino-Phosphine-Alcohol (fAmphol) Ligands for Iridium-Catalyzed Asymmetric Hydrogenation of Simple Ketones. <i>Chemistry - A European Journal</i> , 2017, 23, 970-975.	3.3	67
110	Aza-Crown-Capped Porphyrin Models of Myoglobin: Studies of the Steric Interactions of Gas Binding. <i>Journal of the American Chemical Society</i> , 1997, 119, 3481-3489.	13.7	66
111	Highly Regioselective Isomerization-Hydroformylation of Internal Olefins to Linear Aldehyde Using Rh Complexes with Tetraphosphorus Ligands. <i>Organic Letters</i> , 2008, 10, 3469-3472.	4.6	66
112	Synthesis of Chiral Aliphatic Amines through Asymmetric Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8416-8419.	13.8	66
113	Rhodium/Yanphos-Catalyzed Asymmetric Interrupted Intramolecular Hydroaminomethylation of <i>trans</i> -1,2-Disubstituted Alkenes. <i>Journal of the American Chemical Society</i> , 2016, 138, 9017-9020.	13.7	66
114	Iridium-Catalyzed Asymmetric Hydrogenation of Quinoline Derivatives with C <sub>3</sub> -TunePhos. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 2441-2444.	4.3	65
115	Rhodium Catalyzed Asymmetric Hydrogenation of 2-Pyridine Ketones. <i>Organic Letters</i> , 2015, 17, 4144-4147.	4.6	65
116	Highly Enantioselective Synthesis of Chiral Succinimides via Rh/Bisphosphine-Thiourea-Catalyzed Asymmetric Hydrogenation. <i>ACS Catalysis</i> , 2016, 6, 6214-6218.	11.2	65
117	Highly Efficient Tetradentate Ruthenium Catalyst for Ester Reduction: Especially for Hydrogenation of Fatty Acid Esters. <i>Organic Letters</i> , 2015, 17, 454-457.	4.6	64
118	Recent progress in rhodium-catalyzed hydroaminomethylation. <i>Organic Chemistry Frontiers</i> , 2016, 3, 1359-1370.	4.5	64
119	Design and Application of Hybrid Phosphorus Ligands for Enantioselective Rh-Catalyzed Anti-Markovnikov Hydroformylation of Unfunctionalized 1,1-Disubstituted Alkenes. <i>Journal of the American Chemical Society</i> , 2018, 140, 4977-4981.	13.7	64
120	Recent advances on transition-metal-catalysed asymmetric reductive amination. <i>Organic Chemistry Frontiers</i> , 2021, 8, 2328-2342.	4.5	64
121	Enantioselective Addition of Diethylzinc to Aldehydes Catalyzed by a Titanate Complex with a Chiral Tetradentate Ligand. <i>Journal of Organic Chemistry</i> , 1997, 62, 2665-2668.	3.2	63
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