

Xumu Zhang

List of Publications by Year in descending order

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437
papers

24,677
citations

6592

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times ranked

9712
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#	ARTICLE	IF	CITATIONS
1	Ir-Catalyzed Asymmetric Hydrogenation of Unprotected Indoles: Scope Investigations and Mechanistic Studies. <i>CCS Chemistry</i> , 2023, 5, 1398-1410.	4.6	10
2	Remdesivir Metabolite GS-441524 Effectively Inhibits SARS-CoV-2 Infection in Mouse Models. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 2785-2793.	2.9	92
3	Examination of Milstein Ru-PNN and Rh-Tribi/Tetrabi dual metal catalyst for isomerization-linear-hydroformylation of C4 raffinate and internal olefins. <i>Green Synthesis and Catalysis</i> , 2022, 3, 40-45.	3.7	4
4	Catalytic Asymmetric Hydrogenation of Tetrasubstituted Unsaturated Lactams: An Efficient Approach to Enantioenriched 3,4-Disubstituted Piperidines. <i>Organic Letters</i> , 2022, , .	2.4	5
5	Highly Enantioselective Rhodium(I)-Catalyzed Alder-ene-type Cycloisomerization of 1,7-Enynes. <i>Organic Letters</i> , 2022, 24, 869-874.	2.4	6
6	Ir/f-Ampha complex catalyzed asymmetric sequential hydrogenation of enones: a general access to chiral alcohols with two contiguous chiral centers. <i>Chemical Science</i> , 2022, 13, 1808-1814.	3.7	5
7	Direct asymmetric reductive amination of $\hat{1}\pm$ -keto acetals: a platform for synthesizing diverse $\hat{1}\pm$ -functionalized amines. <i>Chemical Communications</i> , 2022, 58, 513-516.	2.2	12
8	Enantioselective synthesis of <i>cis</i> -hexahydro- $\hat{1}^3$ -carboline derivatives <i>via</i> Ir-catalyzed asymmetric hydrogenation. <i>Chemical Communications</i> , 2022, 58, 3286-3289.	2.2	1
9	Iridium-Catalyzed Hydroiodination and Formal Hydroamination of Olefins with <i>N</i> -Iodo Reagents and Molecular Hydrogen: An Umpolung Strategy. <i>Organic Letters</i> , 2022, 24, 1842-1847.	2.4	3
10	Highly Enantioselective Synthesis of <i>N</i> -Unprotected Unnatural $\hat{1}\pm$ -Amino Acid Derivatives by Ruthenium-Catalyzed Direct Asymmetric Reductive Amination. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	18
11	Discovery and development of ferrocene-based tetradentate ligands for Ir-catalysed asymmetric hydrogenation of ketone. <i>Green Synthesis and Catalysis</i> , 2022, 3, 175-178.	3.7	21
12	Development of <i>C</i> ₂ -Symmetric Chiral Diphosphine Ligands for Highly Enantioselective Hydrogenation Assisted by Ion Pairing. <i>Organic Letters</i> , 2022, 24, 2744-2749.	2.4	2
13	Gold-Catalyzed Desymmetric Lactonization of Alkynylmalonic Acids Enabled by Chiral Bifunctional P,N ligands. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	1
14	Gold-Catalyzed Desymmetric Lactonization of Alkynylmalonic Acids Enabled by Chiral Bifunctional P,N ligands. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	7
15	The adenosine analog prodrug ATV006 is orally bioavailable and has preclinical efficacy against parental SARS-CoV-2 and variants. <i>Science Translational Medicine</i> , 2022, 14, eabm7621.	5.8	22
16	Construction of a quaternary stereogenic center by asymmetric hydroformylation: a straightforward method to prepare chiral $\hat{1}\pm$ -quaternary amino acids. <i>Chemical Science</i> , 2022, 13, 7215-7223.	3.7	2
17	Frontispiece: Highly Enantioselective Synthesis of <i>N</i> -Unprotected Unnatural $\hat{1}\pm$ -Amino Acid Derivatives by Ruthenium-Catalyzed Direct Asymmetric Reductive Amination. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	0
18	Frontispiz: Highly Enantioselective Synthesis of <i>N</i> -Unprotected Unnatural $\hat{1}\pm$ -Amino Acid Derivatives by Ruthenium-Catalyzed Direct Asymmetric Reductive Amination. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0

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19	Highly efficient synthesis of chiral β -amino phosphine derivatives via direct asymmetric reductive amination with ammonium salts and H ₂ . <i>Green Synthesis and Catalysis</i> , 2022, , .	3.7	6
20	Tetraphosphite ligand for ultrafast isomerization-hydroformylation of C ₄ raffinate under mild conditions. <i>Journal of Catalysis</i> , 2022, 413, 388-397.	3.1	4
21	Rhodium-Catalyzed Chemo-, Regio- and Enantioselective Hydroformylation of Cyclopropyl-Functionalized Trisubstituted Alkenes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	6
22	Design of oxa-spirocyclic PHOX ligands for the asymmetric synthesis of lorcaserin via iridium-catalyzed asymmetric hydrogenation. <i>Chemical Communications</i> , 2021, 57, 195-198.	2.2	12
23	Enantioselective Hydrogenation of Endocyclic Enones: the Solution to a Historical Problem. <i>Chinese Journal of Chemistry</i> , 2021, 39, 933-936.	2.6	2
24	Highly Chemo- and Enantioselective Rh-Catalyzed Hydrogenation of β -Sulfonyl- α,β -unsaturated Ketones: Access to Chiral β -Ketosulfones. <i>Organic Letters</i> , 2021, 23, 19-24.	2.4	16
25	Direct reductive amination of ketones with ammonium salt catalysed by Cp*Ir(III) complexes bearing an amidato ligand. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 8934-8939.	1.5	9
26	Recent advances on transition-metal-catalysed asymmetric reductive amination. <i>Organic Chemistry Frontiers</i> , 2021, 8, 2328-2342.	2.3	64
27	Nickel-Catalyzed Asymmetric Hydrogenation of Cyclic Alkenyl Sulfones, Benzo[<i>b</i>]thiophene 1,1-Dioxides, with Mechanistic Studies. <i>Organic Letters</i> , 2021, 23, 668-675.	2.4	18
28	Asymmetric hydrogenation catalyzed by first-row transition metal complexes. <i>Chemical Society Reviews</i> , 2021, 50, 3211-3237.	18.7	147
29	Asymmetric Transfer Hydrogenation of α -Substituted β -Keto Carbonitriles via Dynamic Kinetic Resolution. <i>Journal of the American Chemical Society</i> , 2021, 143, 2477-2483.	6.6	31
30	High-pressure asymmetric hydrogenation in a customized flow reactor and its application in multi-step flow synthesis of chiral drugs. <i>Journal of Flow Chemistry</i> , 2021, 11, 763-772.	1.2	11
31	Enantioselective Hydrogenation of Tetrasubstituted α,β -Unsaturated Carboxylic Acids Enabled by Cobalt(II) Catalysis: Scope and Mechanistic Insights. <i>Angewandte Chemie</i> , 2021, 133, 11485-11491.	1.6	15
32	Enantioselective Hydrogenation of Tetrasubstituted α,β -Unsaturated Carboxylic Acids Enabled by Cobalt(II) Catalysis: Scope and Mechanistic Insights. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11384-11390.	7.2	58
33	Concise, scalable and enantioselective total synthesis of prostaglandins. <i>Nature Chemistry</i> , 2021, 13, 692-697.	6.6	20
34	Chiral Tridentate Ligands in Transition Metal-Catalyzed Asymmetric Hydrogenation. <i>Chemical Reviews</i> , 2021, 121, 7530-7567.	23.0	117
35	A Computational Study of Asymmetric Hydrogenation of <i>o</i> -Phenyl Acrylic Acids Catalyzed by a Rh(I) Catalyst with Ferrocenyl Chiral Bisphosphorus Ligand: The Role of Ion-Pair Interaction. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1616-1624.	2.6	4
36	Enantiodivergent Synthesis of Chiral Tetrahydroquinoline Derivatives via Ir-Catalyzed Asymmetric Hydrogenation: Solvent-Dependent Enantioselective Control and Mechanistic Investigations. <i>ACS Catalysis</i> , 2021, 11, 7281-7291.	5.5	32

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37	Copper-Catalyzed Enantioselective 1,2-Reduction of Cycloalkenones. <i>Organic Letters</i> , 2021, 23, 5658-5663.	2.4	6
38	Kilogram synthesis of (R)-(-)-denopamine by Ir/rt-amphox catalyzed asymmetric hydrogenation. <i>Green Synthesis and Catalysis</i> , 2021, 2, 393-396.	3.7	9
39	A concise access to bridged [2,2,1] bicyclic lactones with a quaternary stereocenter via stereospecific hydroformylation. <i>Nature Communications</i> , 2021, 12, 5279.	5.8	6
40	A PEGylated N-heterocyclic carbene-gold(σ -Cp) complex: an efficient catalyst for cyclization reaction in water. <i>Organic Chemistry Frontiers</i> , 2021, 8, 1216-1222.	2.3	12
41	Asymmetric hydrogenation of trifluoromethyl ketones: application in the synthesis of Odanacatib and LX-1031. <i>Organic Chemistry Frontiers</i> , 2021, 8, 3705-3711.	2.3	12
42	Iridium-catalyzed asymmetric hydrogenation of α -phosphinoylimine. <i>Organic Chemistry Frontiers</i> , 2021, 8, 1223-1226.	2.3	4
43	Double Asymmetric Hydrogenation of α -Iminoketones: Facile Synthesis of Enantiopure Vicinal Amino Alcohols. <i>ACS Catalysis</i> , 2021, 11, 12729-12735.	5.5	10
44	Cobalt-Catalyzed Hydrogenative Transformation of Nitriles. <i>ACS Catalysis</i> , 2021, 11, 13761-13767.	5.5	6
45	Asymmetric hydrogenation of 1,4-diketones: facile synthesis of enantiopure 1,4-diarylbutane-1,4-diols. <i>Chemical Communications</i> , 2021, 58, 262-265.	2.2	8
46	Phosphine Ligand Development for Homogeneous Asymmetric Hydrogenation. , 2021, , .		0
47	Metal-catalyzed asymmetric hydrogenation of ketones. <i>Advances in Catalysis</i> , 2021, , 291-339.	0.1	3
48	Catalytic asymmetric hydrogenation of (α)- α -dehydroamido boronate esters: direct route to alkyl-substituted α -amidoboronic esters. <i>Chemical Science</i> , 2020, 11, 851-855.	3.7	17
49	Copper-Catalyzed Asymmetric Hydrosilylation of α -Nitroethyl Aryl Ketones. <i>Organic Letters</i> , 2020, 22, 858-862.	2.4	8
50	Rh-Catalyzed Asymmetric Hydrogenation of Unsaturated Medium-Ring NH Lactams: Highly Enantioselective Synthesis of N-Unprotected 2,3-Dihydro-1,5-benzothiazepinones. <i>Organic Letters</i> , 2020, 22, 920-923.	2.4	21
51	Enantioselective synthesis of chiral multicyclic α -lactones <i>via</i> dynamic kinetic resolution of racemic α -keto carboxylic acids. <i>Organic Chemistry Frontiers</i> , 2020, 7, 104-108.	2.3	11
52	Facile access to chiral 4-substituted chromanes through Rh-catalyzed asymmetric hydrogenation. <i>Chinese Chemical Letters</i> , 2020, 31, 1859-1862.	4.8	5
53	Iridium-Catalyzed Cycloisomerization of Alkynoic Acids: Synthesis of Unsaturated Lactones. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 782-788.	2.1	13
54	Facile Synthesis of Enantiopure Sugar Alcohols: Asymmetric Hydrogenation and Dynamic Kinetic Resolution Combined. <i>Angewandte Chemie</i> , 2020, 132, 18323-18328.	1.6	5

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55	Direct catalytic asymmetric synthesis of $\hat{\pm}$ -chiral primary amines. <i>Chemical Society Reviews</i> , 2020, 49, 6141-6153.	18.7	125
56	Ni-Catalyzed asymmetric reduction of $\hat{\pm}$ -keto- $\hat{1}^2$ -lactams via DKR enabled by proton shuttling. <i>Chemical Communications</i> , 2020, 56, 15557-15560.	2.2	9
57	C_1 -Symmetric PNP Ligands for Manganese-Catalyzed Enantioselective Hydrogenation of Ketones: Reaction Scope and Enantioinduction Model. <i>ACS Catalysis</i> , 2020, 10, 13794-13799.	5.5	45
58	Asymmetric Reductive Amination/Ring-Closing Cascade: Direct Synthesis of Enantioenriched Biaryl-Bridged NH Lactams. <i>Organic Letters</i> , 2020, 22, 6479-6483.	2.4	37
59	Chiral Electron-Rich PNP Ligand with a Phospholane Motif: Structural Features and Application in Asymmetric Hydrogenation. <i>Organic Letters</i> , 2020, 22, 8796-8801.	2.4	13
60	Noncovalent Interaction-Assisted Ferrocenyl Phosphine Ligands in Asymmetric Catalysis. <i>Accounts of Chemical Research</i> , 2020, 53, 1905-1921.	7.6	47
61	Iridium-Catalyzed Asymmetric Hydrogenation of $\hat{\pm}$ -Fluoro Ketones via a Dynamic Kinetic Resolution Strategy. <i>Organic Letters</i> , 2020, 22, 7230-7233.	2.4	14
62	Efficient Access to Chiral 2-Oxazolidinones via Ni-Catalyzed Asymmetric Hydrogenation: Scope Study, Mechanistic Explanation, and Origin of Enantioselectivity. <i>ACS Catalysis</i> , 2020, 10, 11153-11161.	5.5	41
63	Asymmetric Hydrogenation of 2-Aryl-3-phthalimidopyridinium Salts: Synthesis of Piperidine Derivatives with Two Contiguous Stereocenters. <i>Organic Letters</i> , 2020, 22, 8882-8887.	2.4	14
64	Asymmetric Linear-Selective Hydroformylation of 1,1-Dialkyl Olefins Assisted by a Steric-Auxiliary Strategy. <i>Organic Letters</i> , 2020, 22, 4523-4526.	2.4	11
65	Highly Chemo- and Enantioselective Hydrogenation of 2-Substituted-4-oxo-2-alkenoic Acids. <i>Organic Letters</i> , 2020, 22, 4812-4816.	2.4	7
66	A universal reactor platform for batch and flow: application to homogeneous and heterogeneous hydrogenation. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1903-1908.	1.9	10
67	Direct Synthesis of Chiral NH Lactams via Ru-Catalyzed Asymmetric Reductive Amination/Cyclization Cascade of Keto Acids/Esters. <i>Organic Letters</i> , 2020, 22, 2707-2713.	2.4	35
68	Synthesis of chiral $\hat{\pm}$ -substituted $\hat{\pm}$ -amino acid and amine derivatives through Ni-catalyzed asymmetric hydrogenation. <i>Chemical Communications</i> , 2020, 56, 4934-4937.	2.2	19
69	Asymmetric Hydrogenation of Cationic Intermediates for the Synthesis of Chiral N -, O -Acetals. <i>Chemistry - A European Journal</i> , 2020, 26, 11470-11477.	1.7	9
70	Cobalt-catalyzed highly enantioselective hydrogenation of $\hat{\pm}$, $\hat{1}^2$ -unsaturated carboxylic acids. <i>Nature Communications</i> , 2020, 11, 3239.	5.8	77
71	Facile Synthesis of Enantiopure Sugar Alcohols: Asymmetric Hydrogenation and Dynamic Kinetic Resolution Combined. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18166-18171.	7.2	21
72	Rh(scp)-Catalyzed diastereoselective transfer hydrogenation: an efficient entry to key intermediates of HIV protease inhibitors. <i>Chemical Communications</i> , 2020, 56, 3119-3122.	2.2	13

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73	Rhodium-catalyzed asymmetric hydrogenation of exocyclic $\hat{1},\hat{2}$ -unsaturated carbonyl compounds. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 856-859.	1.5	14
74	Ruthenium-catalyzed Direct Asymmetric Reductive Amination of Diaryl and Sterically Hindered Ketones with Ammonium Salts and H_2 . <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5321-5325.	7.2	56
75	Ruthenium-catalyzed Direct Asymmetric Reductive Amination of Diaryl and Sterically Hindered Ketones with Ammonium Salts and H_2 . <i>Angewandte Chemie</i> , 2020, 132, 5359-5363.	1.6	12
76	Iridium-catalyzed Enantioselective Hydrogenation of Oxocarbenium Ions: A Case of Ionic Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6108-6114.	7.2	28
77	Rhodium-Catalyzed Enantioselective Anti-Markovnikov Hydroformylation of $\hat{1}$ -Substituted Acryl Acid Derivatives. <i>Organic Letters</i> , 2020, 22, 1108-1112.	2.4	19
78	Kinetic Resolution of Racemic 3,4-Disubstituted 1,4,5,6-Tetrahydropyridine and 3,4-Disubstituted 1,4-Dihydropyridines via Rh-Catalyzed Asymmetric Hydrogenation. <i>ACS Catalysis</i> , 2020, 10, 2603-2608.	5.5	14
79	Iridium-catalyzed Enantioselective Hydrogenation of Oxocarbenium Ions: A Case of Ionic Hydrogenation. <i>Angewandte Chemie</i> , 2020, 132, 6164-6170.	1.6	5
80	Highly Enantioselective Hydrogenation of <i>tetra</i> - and <i>tri</i> -Substituted $\hat{1},\hat{2}$ -Unsaturated Carboxylic Acids with <i>oxa</i> -Spiro Diphosphine Ligands. <i>CCS Chemistry</i> , 2020, 2, 468-477.	4.6	24
81	Recent Advances of Nickel-Catalyzed Homogeneous Asymmetric Hydrogenation. <i>Chinese Journal of Organic Chemistry</i> , 2020, 40, 1096.	0.6	25
82	Enantioselective Rh-Catalyzed Anti-Markovnikov Hydroformylation of 1,1-Disubstituted Allylic Alcohols and Amines: An Efficient Route to Chiral Lactones and Lactams. <i>ACS Catalysis</i> , 2019, 9, 8529-8533.	5.5	35
83	Asymmetric Hydrocyanation of Alkenes without HCN. <i>Angewandte Chemie</i> , 2019, 131, 11044-11047.	1.6	6
84	Nickel-Catalyzed Asymmetric Hydrogenation of Cyclic Sulfamidate Imines: Efficient Synthesis of Chiral Cyclic Sulfamidates. <i>IScience</i> , 2019, 19, 63-73.	1.9	31
85	Nickel-Catalyzed Chemoselective Asymmetric Hydrogenation of $\hat{1},\hat{2}$ -Unsaturated Ketoimines: An Efficient Approach to Chiral Allylic Amines. <i>Organic Letters</i> , 2019, 21, 8966-8969.	2.4	16
86	Innen-Äußertitelbild: Asymmetric Hydrocyanation of Alkenes without HCN (<i>Angew. Chem.</i> 32/2019). <i>Angewandte Chemie</i> , 2019, 131, 11243-11243.	1.6	0
87	Nickel-Catalyzed Desymmetric Hydrogenation of Cyclohexadienones: An Efficient Approach to All-Carbon Quaternary Stereocenters. <i>Journal of the American Chemical Society</i> , 2019, 141, 14560-14564.	6.6	41
88	Efficient synthesis of chiral $\hat{2}$ -hydroxy sulfones <i>via</i> iridium-catalyzed hydrogenation. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 785-788.	1.5	21
89	A cheap metal for a challenging task: nickel-catalyzed highly diastereo- and enantioselective hydrogenation of tetrasubstituted fluorinated enamides. <i>Chemical Science</i> , 2019, 10, 252-256.	3.7	58
90	Enantioselective Access to Chiral Cyclic Sulfamidates Through Iridium-catalyzed Asymmetric Hydrogenation. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 1582-1586.	2.1	14

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91	Intramolecular asymmetric reductive amination: synthesis of enantioenriched dibenz[<i>c</i> -, <i>e</i> -]azepines. <i>Chemical Science</i> , 2019, 10, 2473-2477.	3.7	45
92	Efficient synthesis of chiral 2,3-dihydro-benzo[<i>b</i>]thiophene 1,1-dioxides <i>via</i> Rh-catalyzed hydrogenation. <i>Chemical Science</i> , 2019, 10, 2507-2512.	3.7	17
93	Asymmetric Hydrocyanation of Alkenes without HCN. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10928-10931.	7.2	38
94	CuH-Catalyzed Atropenantioselective Reduction of Bringmann's Lactones via Dynamic Kinetic Resolution. <i>Organic Letters</i> , 2019, 21, 5575-5580.	2.4	22
95	Design, Synthesis and Anti-Platelet Aggregation Activity Study of Ginkgolide-1,2,3-triazole Derivatives. <i>Molecules</i> , 2019, 24, 2156.	1.7	9
96	Desymmetrization of cyclic 1,3-diketones <i>via</i> Ir-catalyzed hydrogenation: an efficient approach to cyclic hydroxy ketones with a chiral quaternary carbon. <i>Chemical Science</i> , 2019, 10, 6350-6353.	3.7	41
97	Synthesis of Chiral \hat{I}^2 -Borylated Carboxylic Esters via Nickel-Catalyzed Asymmetric Hydrogenation. <i>Organic Letters</i> , 2019, 21, 3923-3926.	2.4	26
98	Efficient access to chiral dihydrobenzoxazinones via Rh-catalyzed hydrogenation. <i>RSC Advances</i> , 2019, 9, 15466-15469.	1.7	1
99	Highly efficient Ir-catalyzed asymmetric hydrogenation of benzoxazinones and derivatives with a Brønsted acid cocatalyst. <i>Chemical Science</i> , 2019, 10, 4328-4333.	3.7	25
100	Efficient Access to Chiral \hat{I}^2 -Borylated Carboxylic Esters via Rh-Catalyzed Hydrogenation. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2844-2848.	2.1	11
101	Asymmetric hydrogenation of \hat{I}^{\pm}, \hat{I}^2 -unsaturated sulfones by a rhodium/thiourea-bisphosphine complex. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1438-1441.	2.3	19
102	Enantioselective Rhodium-Catalyzed Cycloisomerization of 1,6-Allenynes to access 5/6-Fused Bicycle[4.3.0]nonadienes. <i>Nature Communications</i> , 2019, 10, 949.	5.8	16
103	Enantioselective Synthesis of 4-Methyl-3,4-dihydroisocoumarin via Asymmetric Hydroformylation of Styrene Derivatives. <i>Journal of Organic Chemistry</i> , 2019, 84, 4915-4920.	1.7	16
104	Homogeneous Hydrogenation with a Cobalt/Tetraphosphine Catalyst: A Superior Hydride Donor for Polar Double Bonds and <i>N</i> -Heteroarenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 20424-20433.	6.6	44
105	Recent Advances in Asymmetric Hydroformylation. <i>Chinese Journal of Organic Chemistry</i> , 2019, 39, 1568.	0.6	27
106	Highly Enantioselective Synthesis of Chiral \hat{I}^3 -Lactams by Rh-Catalyzed Asymmetric Hydrogenation. <i>ACS Catalysis</i> , 2018, 8, 4824-4828.	5.5	48
107	Stereospecific Nucleophilic Substitution with Arylboronic Acids as Nucleophiles in the Presence of a CONH Group. <i>Angewandte Chemie</i> , 2018, 130, 7294-7298.	1.6	9
108	Stereospecific Nucleophilic Substitution with Arylboronic Acids as Nucleophiles in the Presence of a CONH Group. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7176-7180.	7.2	38

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109	Iridium-Catalyzed Asymmetric Hydrogenation of Halogenated Ketones for the Efficient Construction of Chiral Halohydrins. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 2119-2124.	2.1	31
110	Asymmetric Synthesis of Chiral Primary Amines by Ruthenium-Catalyzed Direct Reductive Amination of Alkyl Aryl Ketones with Ammonium Salts and Molecular H ₂ . <i>Journal of the American Chemical Society</i> , 2018, 140, 2024-2027.	6.6	144
111	Iridium/ α -catalyzed asymmetric hydrogenation of aromatic β -keto esters. <i>Organic Chemistry Frontiers</i> , 2018, 5, 1209-1212.	2.3	17
112	Rhodium-catalyzed asymmetric hydrogenation of β -cyanocinnamic esters with the assistance of a single hydrogen bond in a precise position. <i>Chemical Science</i> , 2018, 9, 1919-1924.	3.7	35
113	Highly enantioselective Ir/ α -catalyzed hydrogenation of ketoamides: efficient access to chiral hydroxy amides. <i>Organic Chemistry Frontiers</i> , 2018, 5, 2000-2003.	2.3	16
114	Brønsted-Acid-Promoted Rh-Catalyzed Asymmetric Hydrogenation of N-Unprotected Indoles: A Cocatalysis of Transition Metal and Anion Binding. <i>Organic Letters</i> , 2018, 20, 2143-2147.	2.4	62
115	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.	6.6	64
116	Enantioselective and Diastereoselective Ir-Catalyzed Hydrogenation of β -Substituted β -Ketoesters via Dynamic Kinetic Resolution. <i>Organic Letters</i> , 2018, 20, 1888-1892.	2.4	32
117	A mechanistic investigation of an Iridium-catalyzed asymmetric hydrogenation of pyridinium salts. <i>Tetrahedron</i> , 2018, 74, 2182-2190.	1.0	11
118	Highly enantioselective transfer hydrogenation of racemic β -substituted β -keto sulfonamides via dynamic kinetic resolution. <i>Chemical Communications</i> , 2018, 54, 3883-3886.	2.2	21
119	Enantioselective Palladium-Catalyzed Decarboxylative Allylation of β -Keto Esters Assisted by a Thiourea. <i>Synlett</i> , 2018, 29, 51-56.	1.0	7
120	Enantioselective total synthesis of (S)-kainic acid and (+)-acromelic acid via Rh-catalyzed asymmetric enyne cycloisomerization. <i>Chemical Communications</i> , 2018, 54, 727-730.	2.2	13
121	Development of a novel secondary phosphine oxide-ruthenium catalyst and its application for carbonyl reduction. <i>Chemical Communications</i> , 2018, 54, 535-538.	2.2	18
122	Synthesis of chiral seven-membered β -substituted lactams via Rh-catalyzed asymmetric hydrogenation. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 8819-8823.	1.5	12
123	Iridium-Catalyzed Asymmetric Hydrogenation of Tetrasubstituted β -Fluoro- β -enamino Esters: Efficient Access to Chiral β -Fluoro- β -amino Esters with Two Adjacent Tertiary Stereocenters. <i>Organic Letters</i> , 2018, 20, 6349-6353.	2.4	24
124	Dynamic Kinetic Asymmetric Reductive Amination: Synthesis of Chiral Primary β -Amino Lactams. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14193-14197.	7.2	57
125	Dynamic Kinetic Asymmetric Reductive Amination: Synthesis of Chiral Primary β -Amino Lactams. <i>Angewandte Chemie</i> , 2018, 130, 14389-14393.	1.6	14
126	Nickel-Catalyzed Highly Enantioselective Hydrogenation of β -Acetylamino Vinylsulfones: Access to Chiral β -Amido Sulfones. <i>Organic Letters</i> , 2018, 20, 5914-5917.	2.4	58

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128	Rh-Catalyzed Asymmetric Hydrogenation of $\hat{1}^2$ -Substituted- $\hat{1}^2$ -thio- $\hat{1}^{\pm}$, $\hat{1}^2$ -unsaturated Esters: Expeditious Access to Chiral Organic Sulfides. <i>Organic Letters</i> , 2018, 20, 5636-5639.	2.4	22
129	Silicon-oriented regio- and enantioselective rhodium-catalyzed hydroformylation. <i>Nature Communications</i> , 2018, 9, 2045.	5.8	28
130	Enantioselective Access to Chiral 2-Substituted 2,3-Dihydrobenzo[1,4]dioxane Derivatives through Rh-Catalyzed Asymmetric Hydrogenation. <i>Organic Letters</i> , 2018, 20, 4173-4177.	2.4	22
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132	Rhodium-Catalyzed Highly Regio- and Enantioselective Hydrogenation of Tetrasubstituted Allenyl Sulfones: An Efficient Access to Chiral Allylic Sulfones. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13248-13251.	7.2	35
133	Iridium-catalyzed Efficient Asymmetric Hydrogenation of Benzo-fused Cyclic Ketones. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 4319-4324.	2.1	22
134	Iridium/f-Amphox-Catalyzed Asymmetric Hydrogenation of Styrylglyoxylamides. <i>Synlett</i> , 2018, 29, 2203-2207.	1.0	12
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146	Enzyme-Inspired Chiral Secondary-Phosphine-Oxide Ligand with Dual Noncovalent Interactions for Asymmetric Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6808-6812.	7.2	60
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148	Enantioselective and Diastereoselective Construction of Chiral Amino Alcohols by Iridium- α -Amphox-Catalyzed Asymmetric Hydrogenation via Dynamic Kinetic Resolution. <i>Organic Letters</i> , 2017, 19, 2548-2551.	2.4	41
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156	Pyridine-Directed Asymmetric Hydrogenation of 1,1-Diarylalkenes. <i>Organic Letters</i> , 2017, 19, 5062-5065.	2.4	29
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159	Rh/SPO-WudaPhos-Catalyzed Asymmetric Hydrogenation of β^1 -Substituted Ethenylphosphonic Acids via Noncovalent Ion-Pair Interaction. <i>Organic Letters</i> , 2017, 19, 4375-4378.	2.4	24
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164	Access to Chiral Seven-Member Cyclic Amines via Rh-Catalyzed Asymmetric Hydrogenation. <i>Organic Letters</i> , 2017, 19, 3855-3858.	2.4	51
165	Direct Catalytic Hydrogenation of Simple Amides: A Highly Efficient Approach from Amides to Amines and Alcohols. <i>Chemistry - A European Journal</i> , 2017, 23, 546-548.	1.7	46
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186	New synthetic strategy for chiral 2-oxazolidinones derivatives via rhodium-catalyzed asymmetric hydrogenation. <i>Tetrahedron Letters</i> , 2016, 57, 658-662.	0.7	20
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