Xumu Zhang

List of Publications by Year
in descending order

437 papers	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	Ir-Catalyzed Asymmetric Hydrogenation of Unprotected Indoles: Scope Investigations and Mechanistic Studies. CCS Chemistry, 2023, 5, 1398-1410.	7.8	10
2	Remdesivir Metabolite GS-441524 Effectively Inhibits SARS-CoV-2 Infection in Mouse Models. Journal of Medicinal Chemistry, 2022, 65, 2785-2793.	6.4	92
3	Examination of Milstein Ru-PNN and Rh-Tribi/Tetrabi dual metal catalyst for isomerization-linear-hydroformylation of C4 raffinate and internal olefins. Green Synthesis and Catalysis, 2022, 3, 40-45.	6.8	4
4	Catalytic Asymmetric Hydrogenation of Tetrasubstituted Unsaturated Lactams: An Efficient Approach to Enantioenriched 3,4-Disubstituted Piperidines. Organic Letters, 2022, , .	4.6	5
5	Highly Enantioselective Rhodium(I)-Catalyzed Alder-ene-type Cycloisomerization of 1,7-Enynes. Organic Letters, 2022, 24, 869-874.	4.6	6
6	Ir/f-Ampha complex catalyzed asymmetric sequential hydrogenation of enones: a general access to chiral alcohols with two contiguous chiral centers. Chemical Science, 2022, 13, 1808-1814.	7.4	5
7	Direct asymmetric reductive amination of Î±-keto acetals: a platform for synthesizing diverse Î±-functionalized amines. Chemical Communications, 2022, 58, 513-516.	4.1	12
8	Enantioselective synthesis of cis-hexahydro-Î³-carboline derivatives via Ir-catalyzed asymmetric hydrogenation. Chemical Communications, 2022, 58, 3286-3289.	4.1	1
9	Iridium-Catalyzed Hydroiodination and Formal Hydroamination of Olefins with N-Iodo Reagents and Molecular Hydrogen: An Umpolung Strategy. Organic Letters, 2022, 24, 1842-1847.	4.6	3
10	Highly Enantioselective Synthesis of Nâ€Unprotected Unnatural Î±â€Amino Acid Derivatives by Rutheniumâ€Catalyzed Direct Asymmetric Reductive Amination. Angewandte Chemie - International Edition, 2022, 61, .	13.8	18
11	Discovery and development of ferrocene-based tetradentate ligands for Ir-catalysed asymmetric hydrogenation of ketone. Green Synthesis and Catalysis, 2022, 3, 175-178.	6.8	21
12	Development of C₂-Symmetric Chiral Diphosphine Ligands for Highly Enantioselective Hydrogenation Assisted by Ion Pairing. Organic Letters, 2022, 24, 2744-2749.	4.6	2
13	Goldâ€Catalyzed Desymmetric Lactonization of Alkynylmalonic Acids Enabled by Chiral Bifunctional P,N ligands. Angewandte Chemie, 2022, 134, .	2.0	1
14	Goldâ€Catalyzed Desymmetric Lactonization of Alkynylmalonic Acids Enabled by Chiral Bifunctional P,N ligands. Angewandte Chemie - International Edition, 2022, 61, .	13.8	7
15	The adenosine analog prodrug ATV006 is orally bioavailable and has preclinical efficacy against parental SARS-CoV-2 and variants. Science Translational Medicine, 2022, 14, eabm7621.	12.4	22
16	Construction of a quaternary stereogenic center by asymmetric hydroformylation: a straightforward method to prepare chiral Î±-quaternary amino acids. Chemical Science, 2022, 13, 7215-7223.	7.4	2
17	Frontispiece: Highly Enantioselective Synthesis of Nâ€Unprotected Unnatural Î±â€Amino Acid Derivatives by Rutheniumâ€Catalyzed Direct Asymmetric Reductive Amination. Angewandte Chemie - International Edition, 2022, 61, .	13.8	0
18	Frontispiz: Highly Enantioselective Synthesis of Nâ€Unprotected Unnatural Î±â€Amino Acid Derivatives by Rutheniumâ€Catalyzed Direct Asymmetric Reductive Amination. Angewandte Chemie, 2022, 134, .	2.0	0

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19	Highly efficient synthesis of chiral Î²-amino phosphine derivatives via direct asymmetric reductive amination with ammonium salts and H2. Green Synthesis and Catalysis, 2022, , .	6.8	6
20	Tetraphosphite ligand for ultrafast isomerization-hydroformylation of C4 raffinate under mild conditions. Journal of Catalysis, 2022, 413, 388-397.	6.2	4
21	Rhodiumâ€Catalyzed Chemoâ€, Regioâ€•and Enantioselective Hydroformylation of Cyclopropylâ€Functionalized Trisubstituted Alkenes. Angewandte Chemie - International Edition, 2022, 61, .	13.8	6
22	Design of oxa-spirocyclic PHOX ligands for the asymmetric synthesis of lorcaserin via iridium-catalyzed asymmetric hydrogenation. Chemical Communications, 2021, 57, 195-198.	4.1	12
23	Enantioselective Hydrogenation of Endocyclic Enones: the Solution to a Historical Problem â€. Chinese Journal of Chemistry, 2021, 39, 933-936.	4.9	2
24	Highly Chemo- and Enantioselective Rh-Catalyzed Hydrogenation of Î²-Sulfonyl-Î±,Î²-unsaturated Ketones: Access to Chiral Î³-Ketosulfones. Organic Letters, 2021, 23, 19-24.	4.6	16
25	Direct reductive amination of ketones with ammonium salt catalysed by Cp*Ir(<scp>iii</scp>) complexes bearing an amidato ligand. Organic and Biomolecular Chemistry, 2021, 19, 8934-8939.	2.8	9
26	Recent advances on transition-metal-catalysed asymmetric reductive amination. Organic Chemistry Frontiers, 2021, 8, 2328-2342.	4.5	64
27	Nickel-Catalyzed Asymmetric Hydrogenation of Cyclic Alkenyl Sulfones, Benzo[b]thiophene 1,1-Dioxides, with Mechanistic Studies. Organic Letters, 2021, 23, 668-675.	4.6	18
28	Asymmetric hydrogenation catalyzed by first-row transition metal complexes. Chemical Society Reviews, 2021, 50, 3211-3237.	38.1	147
29	Asymmetric Transfer Hydrogenation of Î±-Substituted-Î²-Keto Carbonitriles via Dynamic Kinetic Resolution. Journal of the American Chemical Society, 2021, 143, 2477-2483.	13.7	31
30	High-pressure asymmetric hydrogenation in a customized flow reactor and its application in multi-step flow synthesis of chiral drugs. Journal of Flow Chemistry, 2021, 11, 763-772.	1.9	11
31	Enantioselective Hydrogenation of Tetrasubstituted Î±,Î²â€Unsaturated Carboxylic Acids Enabled by Cobalt(II) Catalysis: Scope and Mechanistic Insights. Angewandte Chemie, 2021, 133, 11485-11491.	2.0	15
32	Enantioselective Hydrogenation of Tetrasubstituted Î±,Î²â€Unsaturated Carboxylic Acids Enabled by Cobalt(II) Catalysis: Scope and Mechanistic Insights. Angewandte Chemie - International Edition, 2021, 60, 11384-11390.	13.8	58
33	Concise, scalable and enantioselective total synthesis of prostaglandins. Nature Chemistry, 2021, 13, 692-697.	13.6	20
34	Chiral Tridentate Ligands in Transition Metal-Catalyzed Asymmetric Hydrogenation. Chemical Reviews, 2021, 121, 7530-7567.	47.7	117
35	A Computational Study of Asymmetric Hydrogenation of <scp>2â€Phenyl</scp> Acrylic Acids Catalyzed by a Rh(I) Catalyst with Ferrocenyl Chiral Bisphosphorus Ligand: The Role of <scp>Ionâ€Pair</scp> Interaction^{â€}. Chinese Journal of Chemistry, 2021, 39, 1616-1624.	4.9	4
36	Enantiodivergent Synthesis of Chiral Tetrahydroquinoline Derivatives via Ir-Catalyzed Asymmetric Hydrogenation: Solvent-Dependent Enantioselective Control and Mechanistic Investigations. ACS Catalysis, 2021, 11, 7281-7291.	11.2	32

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37	Copper-Catalyzed Enantioselective 1,2-Reduction of Cycloalkenones. Organic Letters, 2021, 23, 5658-5663.	4.6	6
38	Kilogram synthesis of (R)-(-)-denopamine by Ir/f-amphox catalyzed asymmetric hydrogenation. Green Synthesis and Catalysis, 2021, 2, 393-396.	6.8	9
39	A concise access to bridged [2,2,1] bicyclic lactones with a quaternary stereocenter via stereospecific hydroformylation. Nature Communications, 2021, 12, 5279.	12.8	6
40	A PEGylated N-heterocyclic carbene-gold(<scp>i</scp>) complex: an efficient catalyst for cyclization reaction in water. Organic Chemistry Frontiers, 2021, 8, 1216-1222.	4.5	12
41	Asymmetric hydrogenation of trifluoromethyl ketones: application in the synthesis of Odanacatib and LX-1031. Organic Chemistry Frontiers, 2021, 8, 3705-3711.	4.5	12
42	Iridium-catalyzed asymmetric hydrogenation of N-phosphinoylimine. Organic Chemistry Frontiers, 2021, 8, 1223-1226.	4.5	4
43	Double Asymmetric Hydrogenation of Î±-Iminoketones: Facile Synthesis of Enantiopure Vicinal Amino Alcohols. ACS Catalysis, 2021, 11, 12729-12735.	11.2	10
44	Cobalt-Catalyzed Hydrogenative Transformation of Nitriles. ACS Catalysis, 2021, 11, 13761-13767.	11.2	6
45	Asymmetric hydrogenation of 1,4-diketones: facile synthesis of enantiopure 1,4-diarylbutane-1,4-diols. Chemical Communications, 2021, 58, 262-265.	4.1	8
46	Phosphine Ligand Development for Homogeneous Asymmetric Hydrogenation. , 2021, , .		0
47	Metal-catalyzed asymmetric hydrogenation of ketones. Advances in Catalysis, 2021, , 291-339.	0.2	3
48	Catalytic asymmetric hydrogenation of (Z)-Î±-dehydroamido boronate esters: direct route to alkyl-substituted Î±-amidoboronic esters. Chemical Science, 2020, 11, 851-855.	7.4	17
49	Copper-Catalyzed Asymmetric Hydrosilylation of Î²-Nitroethyl Aryl Ketones. Organic Letters, 2020, 22, 858-862.	4.6	8
50	Rh-Catalyzed Asymmetric Hydrogenation of Unsaturated Medium-Ring NH Lactams: Highly Enantioselective Synthesis of N-Unprotected 2,3-Dihydro-1,5-benzothiazepinones. Organic Letters, 2020, 22, 920-923.	4.6	21
51	Enantioselective synthesis of chiral multicyclic Î³-lactones via dynamic kinetic resolution of racemic Î³-keto carboxylic acids. Organic Chemistry Frontiers, 2020, 7, 104-108.	4.5	11
52	Facile access to chiral 4-substituted chromanes through Rh-catalyzed asymmetric hydrogenation. Chinese Chemical Letters, 2020, 31, 1859-1862.	9.0	5
53	Iridiumâ€Catalyzed Cycloisomerization of Alkynoic Acids: Synthesis of Unsaturated Lactones. Advanced Synthesis and Catalysis, 2020, 362, 782-788.	4.3	13
54	Facile Synthesis of Enantiopure Sugar Alcohols: Asymmetric Hydrogenation and Dynamic Kinetic Resolution Combined. Angewandte Chemie, 2020, 132, 18323-18328.	2.0	5

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55	Direct catalytic asymmetric synthesis of Î±-chiral primary amines. Chemical Society Reviews, 2020, 49, 6141-6153.	38.1	125
56	Ni-Catalyzed asymmetric reduction of Î±-keto-Î²-lactamsviaDKR enabled by proton shuttling. Chemical Communications, 2020, 56, 15557-15560.	4.1	9
57	C1-Symmetric PNP Ligands for Manganese-Catalyzed Enantioselective Hydrogenation of Ketones: Reaction Scope and Enantioinduction Model. ACS Catalysis, 2020, 10, 13794-13799.	11.2	45
58	Asymmetric Reductive Amination/Ring-Closing Cascade: Direct Synthesis of Enantioenriched Biaryl-Bridged NH Lactams. Organic Letters, 2020, 22, 6479-6483.	4.6	37
59	Chiral Electron-Rich PNP Ligand with a Phospholane Motif: Structural Features and Application in Asymmetric Hydrogenation. Organic Letters, 2020, 22, 8796-8801.	4.6	13
60	Noncovalent Interaction-Assisted Ferrocenyl Phosphine Ligands in Asymmetric Catalysis. Accounts of Chemical Research, 2020, 53, 1905-1921.	15.6	47
61	Iridium-Catalyzed Asymmetric Hydrogenation of Î±-Fluoro Ketones via a Dynamic Kinetic Resolution Strategy. Organic Letters, 2020, 22, 7230-7233.	4.6	14
62	Efficient Access to Chiral 2-Oxazolidinones via Ni-Catalyzed Asymmetric Hydrogenation: Scope Study, Mechanistic Explanation, and Origin of Enantioselectivity. ACS Catalysis, 2020, 10, 11153-11161.	11.2	41
63	Asymmetric Hydrogenation of 2-Aryl-3-phthalimidopyridinium Salts: Synthesis of Piperidine Derivatives with Two Contiguous Stereocenters. Organic Letters, 2020, 22, 8882-8887.	4.6	14
64	Asymmetric Linear-Selective Hydroformylation of 1,1-Dialkyl Olefins Assisted by a Steric-Auxiliary Strategy. Organic Letters, 2020, 22, 4523-4526.	4.6	11
65	Highly Chemo- and Enantioselective Hydrogenation of 2-Substituted-4-oxo-2-alkenoic Acids. Organic Letters, 2020, 22, 4812-4816.	4.6	7
66	A universal reactor platform for batch and flow: application to homogeneous and heterogeneous hydrogenation. Reaction Chemistry and Engineering, 2020, 5, 1903-1908.	3.7	10
67	Direct Synthesis of Chiral NH Lactams via Ru-Catalyzed Asymmetric Reductive Amination/Cyclization Cascade of Keto Acids/Esters. Organic Letters, 2020, 22, 2707-2713.	4.6	35
68	Synthesis of chiral Î±-substituted Î±-amino acid and amine derivatives through Ni-catalyzed asymmetric hydrogenation. Chemical Communications, 2020, 56, 4934-4937.	4.1	19
69	Asymmetric Hydrogenation of Cationic Intermediates for the Synthesis of Chiral N,Oâ€Acetals. Chemistry - A European Journal, 2020, 26, 11470-11477.	3.3	9
70	Cobalt-catalyzed highly enantioselective hydrogenation of Î±,Î²-unsaturated carboxylic acids. Nature Communications, 2020, 11, 3239.	12.8	77
71	Facile Synthesis of Enantiopure Sugar Alcohols: Asymmetric Hydrogenation and Dynamic Kinetic Resolution Combined. Angewandte Chemie - International Edition, 2020, 59, 18166-18171.	13.8	21
72	Rh(<scp>iii</scp>)-Catalyzed diastereoselective transfer hydrogenation: an efficient entry to key intermediates of HIV protease inhibitors. Chemical Communications, 2020, 56, 3119-3122.	4.1	13

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73	Rhodium-catalyzed asymmetric hydrogenation of exocyclic Î±,Î²-unsaturated carbonyl compounds. Organic and Biomolecular Chemistry, 2020, 18, 856-859.	2.8	14
74	Rutheniumâ€Catalyzed Direct Asymmetric Reductive Amination of Diaryl and Sterically Hindered Ketones with Ammonium Salts and H₂. Angewandte Chemie - International Edition, 2020, 59, 5321-5325.	13.8	56
75	Rutheniumâ€Catalyzed Direct Asymmetric Reductive Amination of Diaryl and Sterically Hindered Ketones with Ammonium Salts and H 2. Angewandte Chemie, 2020, 132, 5359-5363.	2.0	12
76	Iridiumâ€Catalyzed Enantioselective Hydrogenation of Oxocarbenium Ions: A Case of Ionic Hydrogenation. Angewandte Chemie - International Edition, 2020, 59, 6108-6114.	13.8	28
77	Rhodium-Catalyzed Enantioselective Anti-Markovnikov Hydroformylation of Î±-Substituted Acryl Acid Derivatives. Organic Letters, 2020, 22, 1108-1112.	4.6	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. ACS Catalysis, 2020, 10, 2603-2608.	11.2	14
79	Iridiumâ€Catalyzed Enantioselective Hydrogenation of Oxocarbenium Ions: A Case of Ionic Hydrogenation. Angewandte Chemie, 2020, 132, 6164-6170.	2.0	5
80	Highly Enantioselective Hydrogenation of tetra - and tri -Substituted Î±,Î²-Unsaturated Carboxylic Acids with oxa -Spiro Diphosphine Ligands. CCS Chemistry, 2020, 2, 468-477.	7.8	24
81	Recent Advances of Nickel-Catalyzed Homogeneous Asymmetric Hydrogenation. Chinese Journal of Organic Chemistry, 2020, 40, 1096.	1.3	25
82	Enantioselective Rh-Catalyzed Anti-Markovnikov Hydroformylation of 1,1-Disubstituted Allylic Alcohols and Amines: An Efficient Route to Chiral Lactones and Lactams. ACS Catalysis, 2019, 9, 8529-8533.	11.2	35
83	Asymmetric Hydrocyanation of Alkenes without HCN. Angewandte Chemie, 2019, 131, 11044-11047.	2.0	6
84	Nickel-Catalyzed Asymmetric Hydrogenation of Cyclic Sulfamidate Imines: Efficient Synthesis of Chiral Cyclic Sulfamidates. IScience, 2019, 19, 63-73.	4.1	31
85	Nickel-Catalyzed Chemoselective Asymmetric Hydrogenation of Î±,Î²-Unsaturated Ketoimines: An Efficient Approach to Chiral Allylic Amines. Organic Letters, 2019, 21, 8966-8969.	4.6	16
86	InnenrÃ¼cktitelbild: Asymmetric Hydrocyanation of Alkenes without HCN (Angew. Chem. 32/2019). Angewandte Chemie, 2019, 131, 11243-11243.	2.0	0
87	Nickel-Catalyzed Desymmetric Hydrogenation of Cyclohexadienones: An Efficient Approach to All-Carbon Quaternary Stereocenters. Journal of the American Chemical Society, 2019, 141, 14560-14564.	13.7	41
88	Efficient synthesis of chiral Î²-hydroxy sulfones via iridium-catalyzed hydrogenation. Organic and Biomolecular Chemistry, 2019, 17, 785-788.	2.8	21
89	A cheap metal for a challenging task: nickel-catalyzed highly diastereo- and enantioselective hydrogenation of tetrasubstituted fluorinated enamides. Chemical Science, 2019, 10, 252-256.	7.4	58
90	Enantioselective Access to Chiral Cyclic Sulfamidates Through Iridiumâ€Catalyzed Asymmetric Hydrogenation. Advanced Synthesis and Catalysis, 2019, 361, 1582-1586.	4.3	14

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91	Intramolecular asymmetric reductive amination: synthesis of enantioenriched dibenz[c,e]azepines. Chemical Science, 2019, 10, 2473-2477.	7.4	45
92	Efficient synthesis of chiral 2,3-dihydro-benzo[b]thiophene 1,1-dioxides via Rh-catalyzed hydrogenation. Chemical Science, 2019, 10, 2507-2512.	7.4	17
93	Asymmetric Hydrocyanation of Alkenes without HCN. Angewandte Chemie - International Edition, 2019, 58, 10928-10931.	13.8	38
94	CuH-Catalyzed Atropoenantioselective Reduction of Bringmannâ€™s Lactones via Dynamic Kinetic Resolution. Organic Letters, 2019, 21, 5575-5580.	4.6	22
95	Design, Synthesis and Anti-Platelet Aggregation Activity Study of Ginkgolide-1,2,3-triazole Derivatives. Molecules, 2019, 24, 2156.	3.8	9
96	Desymmetrization of cyclic 1,3-diketones via Ir-catalyzed hydrogenation: an efficient approach to cyclic hydroxy ketones with a chiral quaternary carbon. Chemical Science, 2019, 10, 6350-6353.	7.4	41
97	Synthesis of Chiral Î²-Borylated Carboxylic Esters via Nickel-Catalyzed Asymmetric Hydrogenation. Organic Letters, 2019, 21, 3923-3926.	4.6	26
98	Efficient access to chiral dihydrobenzoxazinones via Rh-catalyzed hydrogenation. RSC Advances, 2019, 9, 15466-15469.	3.6	1
99	Highly efficient Ir-catalyzed asymmetric hydrogenation of benzoxazinones and derivatives with a BrÅ¸nsted acid cocatalyst. Chemical Science, 2019, 10, 4328-4333.	7.4	25
100	Efficient Access to Chiral Î²â€Borylated Carboxylic Esters via Rhâ€Catalyzed Hydrogenation. Advanced Synthesis and Catalysis, 2019, 361, 2844-2848.	4.3	11
101	Asymmetric hydrogenation of Î±,Î²-unsaturated sulfones by a rhodium/thioureaâ€“bisphosphine complex. Organic Chemistry Frontiers, 2019, 6, 1438-1441.	4.5	19
102	Enantioselective Rhodium-Catalyzed Cycloisomerization of 1,6-Allenynes to access 5/6-Fused Bicycle[4.3.0]nonadienes. Nature Communications, 2019, 10, 949.	12.8	16
103	Enantioselective Synthesis of 4-Methyl-3,4-dihydroisocoumarin via Asymmetric Hydroformylation of Styrene Derivatives. Journal of Organic Chemistry, 2019, 84, 4915-4920.	3.2	16
104	Homogeneous Hydrogenation with a Cobalt/Tetraphosphine Catalyst: A Superior Hydride Donor for Polar Double Bonds and N-Heteroarenes. Journal of the American Chemical Society, 2019, 141, 20424-20433.	13.7	44
105	Recent Advances in Asymmetric Hydroformylation. Chinese Journal of Organic Chemistry, 2019, 39, 1568.	1.3	27
106	Highly Enantioselective Synthesis of Chiral Î³-Lactams by Rh-Catalyzed Asymmetric Hydrogenation. ACS Catalysis, 2018, 8, 4824-4828.	11.2	48
107	Stereospecific Nucleophilic Substitution with Arylboronic Acids as Nucleophiles in the Presence of a CONH Group. Angewandte Chemie, 2018, 130, 7294-7298.	2.0	9
108	Stereospecific Nucleophilic Substitution with Arylboronic Acids as Nucleophiles in the Presence of a CONH Group. Angewandte Chemie - International Edition, 2018, 57, 7176-7180.	13.8	38

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109	Iridiumâ€Catalyzed Asymmetric Hydrogenation of Halogenated Ketones for the Efficient Construction of Chiral Halohydrins. Advanced Synthesis and Catalysis, 2018, 360, 2119-2124.	4.3	31
110	Asymmetric Synthesis of Chiral Primary Amines by Ruthenium-Catalyzed Direct Reductive Amination of Alkyl Aryl Ketones with Ammonium Salts and Molecular H₂. Journal of the American Chemical Society, 2018, 140, 2024-2027.	13.7	144
111	Iridium/f-ampha-catalyzed asymmetric hydrogenation of aromatic Î±-keto esters. Organic Chemistry Frontiers, 2018, 5, 1209-1212.	4.5	17
112	Rhodium-catalyzed asymmetric hydrogenation of Î²-cyanocinnamic esters with the assistance of a single hydrogen bond in a precise position. Chemical Science, 2018, 9, 1919-1924.	7.4	35
113	Highly enantioselective Ir/f-amphox-catalyzed hydrogenation of ketoamides: efficient access to chiral hydroxy amides. Organic Chemistry Frontiers, 2018, 5, 2000-2003.	4.5	16
114	BrÃ¸nsted-Acid-Promoted Rh-Catalyzed Asymmetric Hydrogenation of N-Unprotected Indoles: A Cocatalysis of Transition Metal and Anion Binding. Organic Letters, 2018, 20, 2143-2147.	4.6	62
115	Design and Application of Hybrid Phosphorus Ligands for Enantioselective Rh-Catalyzed Anti-Markovnikov Hydroformylation of Unfunctionalized 1,1-Disubstituted Alkenes. Journal of the American Chemical Society, 2018, 140, 4977-4981.	13.7	64
116	Enantioselective and Diastereoselective Ir-Catalyzed Hydrogenation of Î±-Substituted Î²-Ketoesters via Dynamic Kinetic Resolution. Organic Letters, 2018, 20, 1888-1892.	4.6	32
117	A mechanistic investigation of an Iridium-catalyzed asymmetric hydrogenation of pyridinium salts. Tetrahedron, 2018, 74, 2182-2190.	1.9	11
118	Highly enantioselective transfer hydrogenation of racemic Î±-substituted Î²-keto sulfonamides via dynamic kinetic resolution. Chemical Communications, 2018, 54, 3883-3886.	4.1	21
119	Enantioselective Palladium-Catalyzed Decarboxylative Allylation of Î²-Keto Esters Assisted by a Thiourea. Synlett, 2018, 29, 51-56.	1.8	7
120	Enantioselective total synthesis of (â^')-kainic acid and (+)-acromelic acid C via Rh(<scp>i</scp>)-catalyzed asymmetric enyne cycloisomerization. Chemical Communications, 2018, 54, 727-730.	4.1	13
121	Development of a novel secondary phosphine oxideâ€“ruthenium(<scp>ii</scp>) catalyst and its application for carbonyl reduction. Chemical Communications, 2018, 54, 535-538.	4.1	18
122	Synthesis of chiral seven-membered Î²-substituted lactams via Rh-catalyzed asymmetric hydrogenation. Organic and Biomolecular Chemistry, 2018, 16, 8819-8823.	2.8	12
123	Iridium-Catalyzed Asymmetric Hydrogenation of Tetrasubstituted Î±-Fluoro-Î²-enamino Esters: Efficient Access to Chiral Î±-Fluoro-Î²-amino Esters with Two Adjacent Tertiary Stereocenters. Organic Letters, 2018, 20, 6349-6353.	4.6	24
124	Dynamic Kinetic Asymmetric Reductive Amination: Synthesis of Chiral Primary Î²â€Amino Lactams. Angewandte Chemie - International Edition, 2018, 57, 14193-14197.	13.8	57
125	Dynamic Kinetic Asymmetric Reductive Amination: Synthesis of Chiral Primary Î²â€Amino Lactams. Angewandte Chemie, 2018, 130, 14389-14393.	2.0	14
126	Nickel-Catalyzed Highly Enantioselective Hydrogenation of Î²-Acetylamino Vinylsulfones: Access to Chiral Î²-Amido Sulfones. Organic Letters, 2018, 20, 5914-5917.	4.6	58

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127	Rhodiumâ€Catalyzed Highly Regioâ€•and Enantioselective Hydrogenation of Tetrasubstituted Allenyl Sulfones: An Efficient Access to Chiral Allylic Sulfones. Angewandte Chemie, 2018, 130, 13432-13435.	2.0	10
128	Rh-Catalyzed Asymmetric Hydrogenation of Î²-Substituted-Î²-thio-Î±,Î²-unsaturated Esters: Expeditious Access to Chiral Organic Sulfides. Organic Letters, 2018, 20, 5636-5639.	4.6	22
129	Silicon-oriented regio- and enantioselective rhodium-catalyzed hydroformylation. Nature Communications, 2018, 9, 2045.	12.8	28
130	Enantioselective Access to Chiral 2-Substituted 2,3-Dihydrobenzo[1,4]dioxane Derivatives through Rh-Catalyzed Asymmetric Hydrogenation. Organic Letters, 2018, 20, 4173-4177.	4.6	22
131	Scope and Mechanism on Iridiumâ€fâ€Amphamide Catalyzed Asymmetric Hydrogenation of Ketones. Chinese Journal of Chemistry, 2018, 36, 851-856.	4.9	44
132	Rhodiumâ€Catalyzed Highly Regioâ€•and Enantioselective Hydrogenation of Tetrasubstituted Allenyl Sulfones: An Efficient Access to Chiral Allylic Sulfones. Angewandte Chemie - International Edition, 2018, 57, 13248-13251.	13.8	35
133	Iridium/fâ€Ampholâ€catalyzed Efficient Asymmetric Hydrogenation of Benzoâ€fused Cyclic Ketones. Advanced Synthesis and Catalysis, 2018, 360, 4319-4324.	4.3	22
134	Iridium/f-Amphox-Catalyzed Asymmetric Hydrogenation of Styrylglyoxylamides. Synlett, 2018, 29, 2203-2207.	1.8	12
135	A one-pot process for the enantioselective synthesis of tetrahydroquinolines and tetrahydroisoquinolines via asymmetric reductive amination (ARA). Chemical Communications, 2018, 54, 7247-7250.	4.1	28
136	Design and Synthesis of Chiral oxa-Spirocyclic Ligands for Ir-Catalyzed Direct Asymmetric Reduction of Bringmannâ€™s Lactones with Molecular H₂. Journal of the American Chemical Society, 2018, 140, 8064-8068.	13.7	109
137	Asymmetric hydrogenation of Î±-hydroxy ketones with an iridium/f-amphox catalyst: efficient access to chiral 1,2-diols. Organic Chemistry Frontiers, 2017, 4, 555-559.	4.5	31
138	Rhodium-catalyzed enantioselective hydrogenation of Î±-amino acrylonitriles: an efficient approach to synthesizing chiral Î±-amino nitriles. Chemical Communications, 2017, 53, 1313-1316.	4.1	16
139	Rhodiumâ€Catalyzed Asymmetric Hydrogenation of Tetrasubstituted Cyclic Enamides: Efficient Access to Chiral Cycloalkylamine Derivatives. Advanced Synthesis and Catalysis, 2017, 359, 597-602.	4.3	22
140	Iridium catalysts with modular axial-unfixed biphenyl phosphineâ€“oxazoline ligands: asymmetric hydrogenation of Î±,Î²-unsaturated carboxylic acids. Organic Chemistry Frontiers, 2017, 4, 627-630.	4.5	14
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