# Hui Lv

List of Publications by Year
in descending order



| 175 | 10,420 | 34016 | 37111 |
|---|---|---|---|
| papers | citations | 52 h-index | 96 g-index |

| 182 | 182 | 182 | 5507 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | New Chiral Phosphorus Ligands for Enantioselective Hydrogenation. Chemical Reviews, 2003, 103, 3029-3070. | 23.0 | 2,231 |
| 2 | Developing Chiral Ligands for Asymmetric Hydrogenation. Accounts of Chemical Research, 2007, 40, 1278-1290. | 7.6 | 301 |
| 3 | Nâ€Heterocyclic Carbene Catalyzed [4+3] Annulation of Enals and oâ€Quinone Methides: Highly Enantioselective Synthesis of Benzoâ€Îµâ€Lactones. Angewandte Chemie - International Edition, 2013, 52, 8607-8610. | 7.2 | 277 |
| 4 | Highly Effective Chiral Ortho-Substituted BINAPO Ligands (o-BINAPO):Â Applications in Ru-Catalyzed Asymmetric Hydrogenations of Î²-Aryl-Substituted Î²-(Acylamino)acrylates and Î²-Keto Esters. Journal of the American Chemical Society, 2002, 124, 4952-4953. | 6.6 | 203 |
| 5 | A Hybrid Phosphorus Ligand for Highly Enantioselective Asymmetric Hydroformylation. Journal of the American Chemical Society, 2006, 128, 7198-7202. | 6.6 | 199 |
| 6 | Practical P-Chiral Phosphane Ligand for Rh-Catalyzed Asymmetric Hydrogenation. European Journal of Organic Chemistry, 2005, 2005, 646-649. | 1.2 | 166 |
| 7 | A Bisphosphepine Ligand with Stereogenic Phosphorus Centers for the Practical Synthesis of Î²-Aryl-Î²-Amino Acids by Asymmetric Hydrogenation. Angewandte Chemie - International Edition, 2003, 42, 3509-3511. | 7.2 | 161 |
| 8 | Enantioselective Hydrogenation of Tetrasubstituted Olefins of Cyclic Î²-(Acylamino)acrylates. Journal of the American Chemical Society, 2003, 125, 9570-9571. | 6.6 | 158 |
| 9 | Solvent-promoted catalyst-free N-formylation of amines using carbon dioxide under ambient conditions. Chemical Communications, 2016, 52, 6545-6548. | 2.2 | 156 |
| 10 | Enantioselective Synthesis of Dihydrocoumarins via Nâ€Heterocyclic Carbeneâ€Catalyzed Cycloaddition of Ketenes and oâ€Quinone Methides. Advanced Synthesis and Catalysis, 2009, 351, 2822-2826. | 2.1 | 151 |
| 11 | Asymmetric hydrogenation catalyzed by first-row transition metal complexes. Chemical Society Reviews, 2021, 50, 3211-3237. | 18.7 | 147 |
| 12 | Rh-Catalyzed Enyne Cycloisomerization. Journal of the American Chemical Society, 2000, 122, 6490-6491. | 6.6 | 144 |
| 13 | Highly Enantioselective Hydrogenation of Cyclic Enamides Catalyzed by a Rh-PennPhos Catalystâ€. Journal of Organic Chemistry, 1999, 64, 1774-1775. | 1.7 | 141 |
| 14 | Highly Enantioselective Syntheses of Functionalized Î±-Methylene-Î³-butyrolactones via Rh(I)-catalyzed Intramolecular Alder Ene Reaction:Â Application to Formal Synthesis of (+)-Pilocarpine. Journal of the American Chemical Society, 2002, 124, 8198-8199. | 6.6 | 139 |
| 15 | Phospholaneâ€“Oxazoline Ligands for Ir-Catalyzed Asymmetric Hydrogenation. Angewandte Chemie - International Edition, 2003, 42, 943-946. | 7.2 | 139 |
| 16 | Strong BrÃ¸nsted acid promoted asymmetric hydrogenation of isoquinolines and quinolines catalyzed by a Rhâ€“thiourea chiral phosphine complex via anion binding. Chemical Science, 2016, 7, 3047-3051. | 3.7 | 134 |
| 17 | Highly Efficient Synthesis of Chiral Î²-Amino Acid Derivatives via Asymmetric Hydrogenation. Organic Letters, 2002, 4, 4159-4161. | 2.4 | 130 |
| 18 | A Novel Chiral Bisphosphine-Thiourea Ligand for Asymmetric Hydrogenation of Î²,Î²-Disubstituted Nitroalkenes. Organic Letters, 2013, 15, 4014-4017. | 2.4 | 118 |

| # | Article | IF | Citations |
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| 19 | Rhodiumâ€Catalyzed Asymmetric Hydrogenation of Unprotected NH Imines Assisted by a Thiourea. Angewandte Chemie - International Edition, 2014, 53, 8467-8470. | 7.2 | 117 |
| 20 | Chiral Tridentate Ligands in Transition Metal-Catalyzed Asymmetric Hydrogenation. Chemical Reviews, 2021, 121, 7530-7567. | 23.0 | 117 |
| 21 | Highly Enantioselective Asymmetric Hydrogenation of Î±-Phthalimide Ketone:Â An Efficient Entry to Enantiomerically Pure Amino Alcohols. Journal of the American Chemical Society, 2004, 126, 1626-1627. | 6.6 | 116 |
| 22 | Implementing digital computing with DNA-based switching circuits. Nature Communications, 2020, 11, 121. | 5.8 | 114 |
| 23 | The First Highly Enantioselective Rh-Catalyzed Enyne Cycloisomerization. Angewandte Chemie - International Edition, 2000, 39, 4104-4106. | 7.2 | 111 |
| 24 | Iridium Catalysts with f-Amphox Ligands: Asymmetric Hydrogenation of Simple Ketones. Organic Letters, 2016, 18, 2938-2941. | 2.4 | 110 |
| 25 | Enantioselective Synthesis of Indole-Fused Dihydropyranones via Catalytic Cycloaddition of Ketenes and 3-Alkylenyloxindoles. Journal of Organic Chemistry, 2010, 75, 6973-6976. | 1.7 | 109 |
| 26 | Electronâ€Donating and Rigid Pâ€Stereogenic Bisphospholane Ligands for Highly Enantioselective Rhodiumâ€Catalyzed Asymmetric Hydrogenations. Angewandte Chemie - International Edition, 2010, 49, 6421-6424. | 7.2 | 103 |
| 27 | Synthesis of a New Class of Conformationally Rigid Phosphino-oxazolines:â€‰ Highly Enantioselective Ligands for Ir-Catalyzed Asymmetric Hydrogenation. Organic Letters, 2004, 6, 513-516. | 2.4 | 100 |
| 28 | Highly Enantioselective Rh-Catalyzed Intramolecular Alderâ€“Ene Reactions for the Syntheses of Chiral Tetrahydrofurans. Angewandte Chemie - International Edition, 2002, 41, 3457-3460. | 7.2 | 99 |
| 29 | Synthesis and Application of Modular Phosphineâ€“Phosphoramidite Ligands in Asymmetric Hydroformylation: Structureâ€“Selectivity Relationship. Chemistry - A European Journal, 2010, 16, 871-877. | 1.7 | 99 |
| 30 | Anortho-Substituted BIPHEP Ligand and Its Applications in Rh-Catalyzed Hydrogenation of Cyclic Enamides. Organic Letters, 2002, 4, 1695-1698. | 2.4 | 89 |
| 31 | Rhodiumâ€Catalyzed Asymmetric Hydroformylation of Nâ€Allylamides: Highly Enantioselective Approach to Î²<sup>2</sup>â€Amino Aldehydes. Angewandte Chemie - International Edition, 2010, 49, 4047-4050. | 7.2 | 86 |
| 32 | Asymmetric Hydrogenation of Pyridinium Salts with an Iridium Phosphole Catalyst. Angewandte Chemie - International Edition, 2014, 53, 12761-12764. | 7.2 | 86 |
| 33 | Asymmetric Hydrogenation of Pyridines: Enantioselective Synthesis of Nipecotic Acid Derivatives. European Journal of Organic Chemistry, 2006, 2006, 4343-4347. | 1.2 | 85 |
| 34 | Practical Syntheses of Î²-Amino Alcohols via Asymmetric Catalytic Hydrogenation. Journal of Organic Chemistry, 1998, 63, 8100-8101. | 1.7 | 82 |
| 35 | Asymmetric Dimerization of Disubstituted Ketenes Catalyzed by Nâ€Heterocyclic Carbenes. Advanced Synthesis and Catalysis, 2008, 350, 2715-2718. | 2.1 | 82 |
| 36 | Rhodium-Catalyzed Enantioselective Hydrogenation of Tetrasubstituted Î±-Acetoxy Î²-Enamido Esters: A New Approach to Chiral Î±-Hydroxyl-Î²-amino Acid Derivatives. Journal of the American Chemical Society, 2014, 136, 16120-16123. | 6.6 | 82 |

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| 37 | Nickel-catalyzed asymmetric hydrogenation of Î²-acylamino nitroolefins: an efficient approach to chiral amines. Chemical Science, 2017, 8, 6419-6422. | 3.7 | 82 |
| 38 | Iridium-Catalyzed Asymmetric Hydrogenation of Ketones with Accessible and Modular Ferrocene-Based Amino-phosphine Acid (f-Ampha) Ligands. Organic Letters, 2017, 19, 690-693. | 2.4 | 79 |
| 39 | Highly Efficient and Highly Enantioselective Asymmetric Hydrogenation of Ketones with TunesPhos/1,2-Diamineâ^Ruthenium(II) Complexes. Journal of Organic Chemistry, 2009, 74, 1397-1399. | 1.7 | 76 |
| 40 | Rhodiumâ€Catalyzed Enantioselective and Diastereoselective Hydrogenation of Î²â€Ketoenamides: Efficient Access to anti 1,3â€Amino Alcohols. Angewandte Chemie - International Edition, 2009, 48, 6052-6054. | 7.2 | 70 |
| 41 | Readily Accessible and Highly Efficient Ferroceneâ€Based Aminoâ€Phosphineâ€Alcohol (fâ€Amphol) Ligands for Iridiumâ€Catalyzed Asymmetric Hydrogenation of Simple Ketones. Chemistry - A European Journal, 2017, 23, 970-975. | 1.7 | 67 |
| 42 | Synthesis of Chiral Aliphatic Amines through Asymmetric Hydrogenation. Angewandte Chemie - International Edition, 2013, 52, 8416-8419. | 7.2 | 66 |
| 43 | Rhodium/Yanphos-Catalyzed Asymmetric Interrupted Intramolecular Hydroaminomethylation of trans-1,2-Disubstituted Alkenes. Journal of the American Chemical Society, 2016, 138, 9017-9020. | 6.6 | 66 |
| 44 | Rhodium Catalyzed Asymmetric Hydrogenation of 2-Pyridine Ketones. Organic Letters, 2015, 17, 4144-4147. | 2.4 | 65 |
| 45 | Highly Enantioselective Synthesis of Chiral Succinimides via Rh/Bisphosphine-Thiourea-Catalyzed Asymmetric Hydrogenation. ACS Catalysis, 2016, 6, 6214-6218. | 5.5 | 65 |
| 46 | 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. | 6.6 | 64 |
| 47 | Rh-Catalyzed Kinetic Resolution of Enynes and Highly Enantioselective Formation of 4-Alkenyl-2,3-disubstituted Tetrahydrofurans. Journal of the American Chemical Society, 2003, 125, 11472-11473. | 6.6 | 62 |
| 48 | Nickel-Catalyzed Enantioselective Hydrogenation of Î²-(Acylamino)acrylates: Synthesis of Chiral Î²-Amino Acid Derivatives. Organic Letters, 2017, 19, 5130-5133. | 2.4 | 58 |
| 49 | Nickel-Catalyzed Highly Enantioselective Hydrogenation of Î²-Acetylamino Vinylsulfones: Access to Chiral Î²-Amido Sulfones. Organic Letters, 2018, 20, 5914-5917. | 2.4 | 58 |
| 50 | A cheap metal for a challenging task: nickel-catalyzed highly diastereo- and enantioselective hydrogenation of tetrasubstituted fluorinated enamides. Chemical Science, 2019, 10, 252-256. | 3.7 | 58 |
| 51 | 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. | 7.2 | 58 |
| 52 | Highly Enantioselective Hydrogenation of Î²,Î²â€Disubstituted Nitroalkenes. Angewandte Chemie - International Edition, 2012, 51, 8573-8576. | 7.2 | 55 |
| 53 | Rhodium-Catalyzed Asymmetric Hydrogenation of Î²-Acetylamino Acrylosulfones: A Practical Approach to Chiral Î²-Amido Sulfones. ACS Catalysis, 2014, 4, 1570-1573. | 5.5 | 53 |
| 54 | A new class of readily available and conformationally rigid phosphino-oxazoline ligands for asymmetric catalysis. Tetrahedron, 2005, 61, 6460-6471. | 1.0 | 52 |

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| 55 | Asymmetric hydrogenation of ketones catalyzed by a ruthenium(ii)-indanâ€“ambox complex. Chemical Communications, 2010, 46, 3979. | 2.2 | 52 |
| 56 | Synthesis of Chiral Î²-Amino Nitroalkanes via Rhodium-Catalyzed Asymmetric Hydrogenation. Organic Letters, 2016, 18, 40-43. | 2.4 | 52 |
| 57 | Access to Chiral Seven-Member Cyclic Amines via Rh-Catalyzed Asymmetric Hydrogenation. Organic Letters, 2017, 19, 3855-3858. | 2.4 | 51 |
| 58 | Highly Enantioselective Synthesis of Chiral Î³-Lactams by Rh-Catalyzed Asymmetric Hydrogenation. ACS Catalysis, 2018, 8, 4824-4828. | 5.5 | 48 |
| 59 | Noncovalent Interaction-Assisted Ferrocenyl Phosphine Ligands in Asymmetric Catalysis. Accounts of Chemical Research, 2020, 53, 1905-1921. | 7.6 | 47 |
| 60 | Rhodium-Catalyzed Asymmetric Hydrogenation of Î±,Î²-Unsaturated Carbonyl Compounds via Thiourea Hydrogen Bonding. Organic Letters, 2016, 18, 4451-4453. | 2.4 | 46 |
| 61 | Direct Catalytic Hydrogenation of Simple Amides: A Highly Efficient Approach from Amides to Amines and Alcohols. Chemistry - A European Journal, 2017, 23, 546-548. | 1.7 | 46 |
| 62 | Rhodium-Catalyzed Enantioselective Hydrogenation of Î²-Acylamino Nitroolefins: A New Approach to Chiral Î²-Amino Nitroalkanes. Organic Letters, 2013, 15, 5524-5527. | 2.4 | 45 |
| 63 | Scope and Mechanism on Iridiumâ€fâ€Amphamide Catalyzed Asymmetric Hydrogenation of Ketones. Chinese Journal of Chemistry, 2018, 36, 851-856. | 2.6 | 44 |
| 64 | Enantioselective and Diastereoselective Construction of Chiral Amino Alcohols by Iridiumâ€“f-Amphox-Catalyzed Asymmetric Hydrogenation via Dynamic Kinetic Resolution. Organic Letters, 2017, 19, 2548-2551. | 2.4 | 41 |
| 65 | Nickel-Catalyzed Desymmetric Hydrogenation of Cyclohexadienones: An Efficient Approach to All-Carbon Quaternary Stereocenters. Journal of the American Chemical Society, 2019, 141, 14560-14564. | 6.6 | 41 |
| 66 | 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. | 5.5 | 41 |
| 67 | Design and synthesis of a novel three-hindered quadrant bisphosphine ligand and its application in asymmetric hydrogenation. Chemical Communications, 2010, 46, 8555. | 2.2 | 40 |
| 68 | Single-Molecular Catalysis Identifying Activation Energy of the Intermediate Product and Rate-Limiting Step in Plasmonic Photocatalysis. Nano Letters, 2020, 20, 2507-2513. | 4.5 | 40 |
| 69 | Rhodiumâ€Catalyzed Desymmetrization by Hydroformylation of Cyclopentenes: Synthesis of Chiral Carbocyclic Nucleosides. Angewandte Chemie - International Edition, 2016, 55, 6511-6514. | 7.2 | 38 |
| 70 | Asymmetric Hydrocyanation of Alkenes without HCN. Angewandte Chemie - International Edition, 2019, 58, 10928-10931. | 7.2 | 38 |
| 71 | Highly Enantioselective Synthesis of Chiral Cyclic Allylic Amines via Rh-Catalyzed Asymmetric Hydrogenation. Organic Letters, 2014, 16, 3484-3487. | 2.4 | 36 |
| 72 | 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. | 3.7 | 35 |

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| 73 | 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. | 7.2 | 35 |
| 74 | 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. | 5.5 | 35 |
| 75 | Enantioselective Synthesis of Optically Pure Î²-Amino Ketones and Î³-Aryl Amines by Rh-Catalyzed Asymmetric Hydrogenation. Journal of Organic Chemistry, 2011, 76, 332-334. | 1.7 | 34 |
| 76 | New Synthetic Strategy for Highâ€Enantiopurity Nâ€Protected Î±â€Amino Ketones and their Derivatives by Asymmetric Hydrogenation. Advanced Synthesis and Catalysis, 2011, 353, 253-256. | 2.1 | 33 |
| 77 | Tunable P-Chiral Bisdihydrobenzooxaphosphole Ligands for Enantioselective Hydroformylation. Organic Letters, 2016, 18, 3346-3349. | 2.4 | 33 |
| 78 | Highly Regioâ€•and Enantioselective Synthesis of Î³,Î´â€Unsaturated Amido Esters by Catalytic Hydrogenation of Conjugated Enamides. Angewandte Chemie - International Edition, 2015, 54, 1885-1887. | 7.2 | 32 |
| 79 | Enantioselective Rhodiumâ€Catalyzed Cycloisomerization of (E)â€1,6â€Enynes. Angewandte Chemie - International Edition, 2016, 55, 6295-6299. | 7.2 | 32 |
| 80 | Efficient access to chiral 1,2-amino alcohols via Ir/f-amphox-catalyzed asymmetric hydrogenation of Î±-amino ketones. Organic Chemistry Frontiers, 2017, 4, 1499-1502. | 2.3 | 32 |
| 81 | Enantioselective and Diastereoselective Ir-Catalyzed Hydrogenation of Î±-Substituted Î²-Ketoesters via Dynamic Kinetic Resolution. Organic Letters, 2018, 20, 1888-1892. | 2.4 | 32 |
| 82 | Highly Enantioselective Hydrogenation of Î¿-Alkoxy Tetrasubstituted Enamides Catalyzed by a Rh/(R,S)-JosiPhos Catalyst. Organic Letters, 2015, 17, 1842-1845. | 2.4 | 31 |
| 83 | 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. | 2.3 | 31 |
| 84 | Iridiumâ€Catalyzed Asymmetric Hydrogenation of Halogenated Ketones for the Efficient Construction of Chiral Halohydrins. Advanced Synthesis and Catalysis, 2018, 360, 2119-2124. | 2.1 | 31 |
| 85 | Nickel-Catalyzed Asymmetric Hydrogenation of Cyclic Sulfamidate Imines: Efficient Synthesis of Chiral Cyclic Sulfamidates. IScience, 2019, 19, 63-73. | 1.9 | 31 |
| 86 | Pyridine-Directed Asymmetric Hydrogenation of 1,1-Diarylalkenes. Organic Letters, 2017, 19, 5062-5065. | 2.4 | 29 |
| 87 | Highly Efficient Rh<sup>I</sup>â€Catalyzed Asymmetric Hydrogenation of Î²â€Amino Acrylonitriles. Chemistry - A European Journal, 2010, 16, 5301-5304. | 1.7 | 28 |
| 88 | Silicon-oriented regio- and enantioselective rhodium-catalyzed hydroformylation. Nature Communications, 2018, 9, 2045. | 5.8 | 28 |
| 89 | Rhodium/bisphosphine-thiourea-catalyzed enantioselective hydrogenation of Î±,Î²-unsaturated N-acylpyrazoles. Chemical Communications, 2016, 52, 11677-11680. | 2.2 | 27 |
| 90 | Rh/DuanPhos-Catalyzed Asymmetric Hydrogenation of Î²-Acetylamino Vinylsulfides: An Approach to Chiral Î²-Acetylamino Sulfides. Organic Letters, 2017, 19, 2877-2880. | 2.4 | 27 |

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| 91 | Recent Advances in Asymmetric Hydroformylation. Chinese Journal of Organic Chemistry, 2019, 39, 1568. | 0.6 | 27 |
| 92 | Synthesis of Chiral Î²-Borylated Carboxylic Esters via Nickel-Catalyzed Asymmetric Hydrogenation. Organic Letters, 2019, 21, 3923-3926. | 2.4 | 26 |
| 93 | Highly efficient Ir-catalyzed asymmetric hydrogenation of benzoxazinones and derivatives with a BrÅ¸nsted acid cocatalyst. Chemical Science, 2019, 10, 4328-4333. | 3.7 | 25 |
| 94 | Rhodiumâ€Catalyzed Asymmetric Hydroformylation of 1,1â€Disubstituted Allylphthalimides: A Catalytic Route to Î²<sup>3</sup>â€Amino Acids. Advanced Synthesis and Catalysis, 2013, 355, 679-684. | 2.1 | 24 |
| 95 | Rhodium-catalyzed asymmetric hydrogenation of tetrasubstituted Î²-acetoxy-Î±-enamido esters and efficient synthesis of droxidopa. Chemical Communications, 2017, 53, 8136-8139. | 2.2 | 24 |
| 96 | Scaling Up Multi-bit DNA Full Adder Circuits with Minimal Strand Displacement Reactions. Journal of the American Chemical Society, 2022, 144, 9479-9488. | 6.6 | 24 |
| 97 | Enantioselective synthesis of Î²-substituted chiral allylic amines via Rh-catalyzed asymmetric hydrogenation. Chemical Communications, 2016, 52, 11850-11853. | 2.2 | 22 |
| 98 | Rhodiumâ€Catalyzed Asymmetric Hydrogenation of Tetrasubstituted Cyclic Enamides: Efficient Access to Chiral Cycloalkylamine Derivatives. Advanced Synthesis and Catalysis, 2017, 359, 597-602. | 2.1 | 22 |
| 99 | 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. | 2.4 | 22 |
| 100 | Enantioselective Access to Chiral 2-Substituted 2,3-Dihydrobenzo[1,4]dioxane Derivatives through Rh-Catalyzed Asymmetric Hydrogenation. Organic Letters, 2018, 20, 4173-4177. | 2.4 | 22 |
| 101 | Iridium/fâ€Ampholâ€catalyzed Efficient Asymmetric Hydrogenation of Benzoâ€fused Cyclic Ketones. Advanced Synthesis and Catalysis, 2018, 360, 4319-4324. | 2.1 | 22 |
| 102 | Nickel-Catalyzed Asymmetric Addition of Aromatic Halides to Ketones: Highly Enantioselective Synthesis of Chiral 2,3-Dihydrobenzofurans Containing a Tertiary Alcohol. Organic Letters, 2020, 22, 5353-5357. | 2.4 | 22 |
| 103 | Highly enantioselective transfer hydrogenation of racemic Î±-substituted Î²-keto sulfonamides via dynamic kinetic resolution. Chemical Communications, 2018, 54, 3883-3886. | 2.2 | 21 |
| 104 | Efficient synthesis of chiral Î²-hydroxy sulfones via iridium-catalyzed hydrogenation. Organic and Biomolecular Chemistry, 2019, 17, 785-788. | 1.5 | 21 |
| 105 | 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. | 2.4 | 21 |
| 106 | Facile Synthesis of Enantiopure Sugar Alcohols: Asymmetric Hydrogenation and Dynamic Kinetic Resolution Combined. Angewandte Chemie - International Edition, 2020, 59, 18166-18171. | 7.2 | 21 |
| 107 | Discovery and development of ferrocene-based tetradentate ligands for Ir-catalysed asymmetric hydrogenation of ketone. Green Synthesis and Catalysis, 2022, 3, 175-178. | 3.7 | 21 |
| 108 | New synthetic strategy for chiral 2-oxazolidinones derivatives via rhodium-catalyzed asymmetric hydrogenation. Tetrahedron Letters, 2016, 57, 658-662. | 0.7 | 20 |

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| 109 | Efficient synthesis of (S,R)-Bn-Yanphos and Rh/(S,R)-Bn-Yanphos catalyzed asymmetric hydroformylation of vinyl heteroarenes. Organic Chemistry Frontiers, 2017, 4, 288-291. | 2.3 | 20 |
| 110 | Concise, scalable and enantioselective total synthesis of prostaglandins. Nature Chemistry, 2021, 13, 692-697. | 6.6 | 20 |
| 111 | Rhodiumâ€catalyzed Asymmetric Hydrogenation of Î±â€Dehydroamino Ketones: A General Approach to Chiral Î±â€amino Ketones. Chemistry - an Asian Journal, 2016, 11, 231-233. | 1.7 | 19 |
| 112 | Synthesis of chiral Î±-substituted Î±-amino acid and amine derivatives through Ni-catalyzed asymmetric hydrogenation. Chemical Communications, 2020, 56, 4934-4937. | 2.2 | 19 |
| 113 | Rhodium-Catalyzed Enantioselective Anti-Markovnikov Hydroformylation of Î±-Substituted Acryl Acid Derivatives. Organic Letters, 2020, 22, 1108-1112. | 2.4 | 19 |
| 114 | DNA Strand Displacement Reactions to Accomplish a Two-Degree-of-Freedom PID Controller and Its Application in Subtraction Gate. IEEE Transactions on Nanobioscience, 2021, 20, 554-564. | 2.2 | 19 |
| 115 | Nickel-Catalyzed Asymmetric Hydrogenation of Cyclic Alkenyl Sulfones, Benzo[b]thiophene 1,1-Dioxides, with Mechanistic Studies. Organic Letters, 2021, 23, 668-675. | 2.4 | 18 |
| 116 | Iridium/f-ampha-catalyzed asymmetric hydrogenation of aromatic Î±-keto esters. Organic Chemistry Frontiers, 2018, 5, 1209-1212. | 2.3 | 17 |
| 117 | Efficient synthesis of chiral 2,3-dihydro-benzo[b]thiophene 1,1-dioxides via Rh-catalyzed hydrogenation. Chemical Science, 2019, 10, 2507-2512. | 3.7 | 17 |
| 118 | A Simple Synthetic Route to Enantiopure Î±â€Hydroxy Ketone Derivatives by Asymmetric Hydrogenation. Advanced Synthesis and Catalysis, 2012, 354, 3211-3215. | 2.1 | 16 |
| 119 | Robust normalization and guaranteed cost control for a class of uncertain singular Markovian jump systems via hybrid impulsive control. International Journal of Robust and Nonlinear Control, 2015, 25, 987-1006. | 2.1 | 16 |
| 120 | Rhodium-catalyzed enantioselective hydrogenation of Î±-amino acrylonitriles: an efficient approach to synthesizing chiral Î±-amino nitriles. Chemical Communications, 2017, 53, 1313-1316. | 2.2 | 16 |
| 121 | Highly enantioselective Ir/f-amphox-catalyzed hydrogenation of ketoamides: efficient access to chiral hydroxy amides. Organic Chemistry Frontiers, 2018, 5, 2000-2003. | 2.3 | 16 |
| 122 | Nickel-Catalyzed Chemoselective Asymmetric Hydrogenation of Î±,Î²-Unsaturated Ketoimines: An Efficient Approach to Chiral Allylic Amines. Organic Letters, 2019, 21, 8966-8969. | 2.4 | 16 |
| 123 | Enantioselective Rhodium-Catalyzed Cycloisomerization of 1,6-Allenynes to access 5/6-Fused Bicycle[4.3.0]nonadienes. Nature Communications, 2019, 10, 949. | 5.8 | 16 |
| 124 | Highly enantioselective synthesis of non-natural aliphatic Î±-amino acids via asymmetric hydrogenation. Organic and Biomolecular Chemistry, 2015, 13, 7624-7627. | 1.5 | 15 |
| 125 | Enantioselective Hydrogenation of Tetrasubstituted Î±,Î²â€Unsaturated Carboxylic Acids Enabled by Cobalt(II) Catalysis: Scope and Mechanistic Insights. Angewandte Chemie, 2021, 133, 11485-11491. | 1.6 | 15 |
| 126 | Rhodium-catalyzed asymmetric hydrogenation of Î²-acetylamino acrylonitriles. Tetrahedron: Asymmetry, 2011, 22, 506-511. | 1.8 | 14 |

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| 127 | 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. | 2.3 | 14 |
| 128 | Enantioselective Access to Chiral Cyclic Sulfamidates Through Iridiumâ€Catalyzed Asymmetric Hydrogenation. Advanced Synthesis and Catalysis, 2019, 361, 1582-1586. | 2.1 | 14 |
| 129 | Half adder and half subtractor logic gates based on nicking enzymes. Molecular Systems Design and Engineering, 2019, 4, 1103-1113. | 1.7 | 14 |
| 130 | Rhodium-catalyzed asymmetric hydrogenation of exocyclic Î±,Î²-unsaturated carbonyl compounds. Organic and Biomolecular Chemistry, 2020, 18, 856-859. | 1.5 | 14 |
| 131 | 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. | 5.5 | 14 |
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