Pher G Andersson

List of Publications by Year
in descending order

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219 papers	12,576 citations	17440 63 h-index	32842 100 g-index
309 all docs	309 docs citations	309 times ranked	6502 citing authors

#	Article	IF	Citations
1	Mechanistic aspects of transition metal-catalyzed hydrogen transfer reactions. Chemical Society Reviews, 2006, 35, 237.	38.1	997
2	Asymmetric Hydrogenation of Olefins Using Chiral Crabtree-type Catalysts: Scope and Limitations. Chemical Reviews, 2014, 114, 2130-2169.	47.7	413
3	Ru(arene)(amino alcohol)-Catalyzed Transfer Hydrogenation of Ketones:â€‰ Mechanism and Origin of Enantioselectivity. Journal of the American Chemical Society, 1999, 121, 9580-9588.	13.7	299
4	Iridium catalysts for the asymmetric hydrogenation of olefins with nontraditional functional substituents. Coordination Chemistry Reviews, 2008, 252, 513-531.	18.8	225
5	Toward an Understanding of the High Enantioselectivity in the Osmium-Catalyzed Asymmetric Dihydroxylation (AD). 1. Kinetics. Journal of the American Chemical Society, 1994, 116, 1278-1291.	13.7	220
6	Mechanistic Studies of Copper-Catalyzed Alkene Aziridination. Journal of the American Chemical Society, 2000, 122, 8013-8020.	13.7	212
7	Iridium-Catalyzed Allylic Substitution. Topics in Organometallic Chemistry, 2011, , 169-208.	0.7	209
8	Ir-Catalysed Asymmetric Hydrogenation: Ligands, Substrates and Mechanism. Chemistry - A European Journal, 2006, 12, 3194-3200.	3.3	180
9	Pyranoside Phosphiteâ€“Oxazoline Ligands for the Highly Versatile and Enantioselective Ir-Catalyzed Hydrogenation of Minimally Functionalized Olefins. A Combined Theoretical and Experimental Study. Journal of the American Chemical Society, 2011, 133, 13634-13645.	13.7	163
10	Catalytic asymmetric dihydroxylation of tetrasubstituted olefins. Journal of the American Chemical Society, 1993, 115, 8463-8464.	13.7	159
11	Evolution and Prospects of the Asymmetric Hydrogenation of Unfunctionalized Olefins. Journal of the American Chemical Society, 2017, 139, 1346-1356.	13.7	154
12	New Mechanistic Insights into the Iridiumâ€“Phosphanooxazoline-Catalyzed Hydrogenation of Unfunctionalized Olefins: A DFT and Kinetic Study. Chemistry - A European Journal, 2003, 9, 339-347.	3.3	151
13	Asymmetric Hydrogenation of Trisubstituted Olefins with Iridiumâˆ'Phosphine Thiazole Complexes:â€‰ A Further Investigation of the Ligand Structure. Journal of the American Chemical Society, 2006, 128, 2995-3001.	13.7	151
14	Rationally Designed Ligands for Asymmetric Iridium-Catalyzed Hydrogenation of Olefins. Journal of the American Chemical Society, 2004, 126, 14308-14309.	13.7	144
15	Mechanistic Insights into the Phosphine-Free RuCp*-Diamine-Catalyzed Hydrogenation of Aryl Ketones:Â Experimental and Theoretical Evidence for an Alcohol-Mediated Dihydrogen Activation. Journal of the American Chemical Society, 2005, 127, 15083-15090.	13.7	144
16	Deprotection of Sulfonyl Aziridines. Journal of Organic Chemistry, 1998, 63, 9455-9461.	3.2	136
17	(1S,3R,4R)-2-Azanorbornylmethanol, an Efficient Ligand for Ruthenium-Catalyzed Asymmetric Transfer Hydrogenation of Ketones. Journal of Organic Chemistry, 1998, 63, 2749-2751.	3.2	135
18	Iridium Phosphiteâˆ'Oxazoline Catalysts for the Highly Enantioselective Hydrogenation of Terminal Alkenes. Journal of the American Chemical Society, 2009, 131, 12344-12353.	13.7	134

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19	Stereoselective intramolecular bis-silylation of alkenes promoted by a palladium-isocyanide catalyst leading to polyol synthesis. Journal of the American Chemical Society, 1993, 115, 6487-6498.	13.7	132
20	Formation of Câ€“C Bonds via Iridium-Catalyzed Hydrogenation and Transfer Hydrogenation. Topics in Organometallic Chemistry, 2011, 34, 107-138.	0.7	131
21	Palladium(II)-Catalyzed Cyclization Using Molecular Oxygen as Reoxidant. Tetrahedron Letters, 1995, 36, 7749-7752.	1.4	125
22	Origin of Enantioselectivity in the Ru(arene)(amino alcohol)-Catalyzed Transfer Hydrogenation of Ketones. Journal of Organic Chemistry, 2004, 69, 4885-4890.	3.2	125
23	Asymmetric Hydrogenation of Imines and Olefins Using Phosphine-Oxazoline Iridium Complexes as Catalysts. Chemistry - A European Journal, 2006, 12, 2318-2328.	3.3	119
24	Iridium-Catalyzed Asymmetric Hydrogenation of Fluorinated Olefins Using N,P-Ligands:Â A Struggle with Hydrogenolysis and Selectivity. Journal of the American Chemical Society, 2007, 129, 4536-4537.	13.7	116
25	New and Highly Enantioselective Catalysts for the Rearrangement of meso-Epoxides into Chiral Allylic Alcohols. Journal of the American Chemical Society, 1998, 120, 10760-10761.	13.7	114
26	Preparation and evaluation of nitrene precursors (PhI=NSO2Ar) for the copper-catalyzed aziridination of olefins. Tetrahedron Letters, 1997, 38, 6897-6900.	1.4	113
27	Room temperature and solvent-free iridium-catalyzed selective alkylation of anilines with alcohols. Chemical Communications, 2013, 49, 6131.	4.1	113
28	Remote Dipole Effects as a Means to Accelerate [Ru(amino alcohol)]-Catalyzed Transfer Hydrogenation of Ketones. Chemistry - A European Journal, 2001, 7, 1431-1436.	3.3	112
29	Example of thermodynamic control in palladium-catalyzed allylic alkylation. Evidence for palladium-assisted allylic carbon-carbon bond cleavage. Journal of the American Chemical Society, 1993, 115, 6609-6613.	13.7	108
30	Enantioselectivity in the Iridium-Catalyzed Hydrogenation of Unfunctionalized Olefins. Organometallics, 2010, 29, 6769-6781.	2.3	108
31	2-Azanorbornyl Alcohols:Â Very Efficient Ligands for Ruthenium-Catalyzed Asymmetric Transfer Hydrogenation of Aromatic Ketones. Journal of Organic Chemistry, 2000, 65, 3116-3122.	3.2	105
32	Palladium-catalyzed stereocontrolled intramolecular 1,4-additions to cyclic 1,3-dienes involving amides as nucleophiles. Journal of the American Chemical Society, 1990, 112, 3683-3685.	13.7	102
33	Chiral Pyranoside Phosphiteâ^'Oxazolines: A New Class of Ligand for Asymmetric Catalytic Hydrogenation of Alkenes. Journal of the American Chemical Society, 2008, 130, 7208-7209.	13.7	102
34	Preparation and Use of Aziridino Alcohols as Promoters for the Enantioselective Addition of Dialkylzinc Reagents toN-(Diphenylphosphinoyl) Imines. Journal of Organic Chemistry, 1997, 62, 7364-7375.	3.2	101
35	Allylic Alcohols via Catalytic Asymmetric Epoxide Rearrangement. Journal of the American Chemical Society, 2000, 122, 6610-6618.	13.7	101
36	Application of Phosphineâ^'Oxazoline Ligands in Ir-Catalyzed Asymmetric Hydrogenation of Acyclic AromaticN-Arylimines. Organic Letters, 2004, 6, 3825-3827.	4.6	101

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37	Iridium-Catalyzed Asymmetric Hydrogenation Yielding Chiral Diarylmethines with Weakly Coordinating or Noncoordinating Substituents. Journal of the American Chemical Society, 2009, 131, 8855-8860.	13.7	100
38	Investigation of the Effects of the Structure and Chelate Size of Bis-oxazoline Ligands in the Asymmetric Copper-Catalyzed Cyclopropanation of Olefins:Â Design of a New Class of Ligands. Journal of Organic Chemistry, 1997, 62, 2518-2526.	3.2	98
39	Combined Experimental and Theoretical Study of the Mechanism and Enantioselectivity of Palladium-Catalyzed Intermolecular Heck Coupling. Journal of the American Chemical Society, 2008, 130, 10414-10421.	13.7	97
40	Enantioselective Synthesis of Chiral Sulfones by Ir-Catalyzed Asymmetric Hydrogenation: A Facile Approach to the Preparation of Chiral Allylic and Homoallylic Compounds. Journal of the American Chemical Society, 2012, 134, 13592-13595.	13.7	96
41	C2-symmetric bis(aziridines): A new class of chiral ligands for transition metal-mediated asymmetric synthesis. Tetrahedron Letters, 1994, 35, 4631-4634.	1.4	95
42	Iridium-N,P-Ligand-Catalyzed Enantioselective Hydrogenation of Diphenylvinylphosphine Oxides and Vinylphosphonates. Journal of the American Chemical Society, 2009, 131, 8285-8289.	13.7	94
43	Asymmetric Hydrogenation of Minimally Functionalised Terminal Olefins: An Alternative Sustainable and Direct Strategy for Preparing Enantioenriched Hydrocarbons. Chemistry - A European Journal, 2010, 16, 14232-14240.	3.3	93
44	Enantioselective Addition of Dialkylzinc Reagents toN-(Diphenylphosphinoyl) Imines Promoted by 2-Azanorbornylmethanols. Journal of Organic Chemistry, 1998, 63, 2530-2535.	3.2	90
45	Palladium-catalyzed tandem cyclization of 4,6- and 5,7-diene amides. A new route toward the pyrrolizidine and indolizidine alkaloids. Journal of the American Chemical Society, 1992, 114, 8696-8698.	13.7	89
46	Cï£¿C Coupling of Ketones with Methanol Catalyzed by a Nâ€Heterocyclic Carbeneâ€“Phosphine Iridium Complex. Chemistry - A European Journal, 2015, 21, 3576-3579.	3.3	88
47	Intramolecular palladium-catalyzed 1,4-addition to conjugated dienes. Stereoselective synthesis of fused tetrahydrofurans and tetrahydropyrans. Journal of the American Chemical Society, 1992, 114, 6374-6381.	13.7	87
48	Asymmetric Hydrogenation of Enol Phosphinates by Iridium Catalysts Having N,P Ligands. Organic Letters, 2007, 9, 1659-1661.	4.6	86
49	An Enantioselective Approach to the Preparation of Chiral Sulfones by Ir-Catalyzed Asymmetric Hydrogenation. Journal of the American Chemical Society, 2014, 136, 16557-16562.	13.7	84
50	Chiral, bicyclic proline derivatives and their application as ligands for copper in the catalytic asymmetric allylic oxidation of olefins. Tetrahedron Letters, 1996, 37, 7577-7580.	1.4	82
51	Asymmetric base-mediated epoxide isomerisation. Chemical Society Reviews, 2002, 31, 223-229.	38.1	82
52	Asymmetric Hydrogenation.. Acta Chemica Scandinavica, 1996, 50, 380-390.	0.7	81
53	Intramolecular bis-silylation of carbon-carbon double bonds leading to stereoselective synthesis of 1,2,4-triols. Journal of the American Chemical Society, 1991, 113, 3987-3988.	13.7	78
54	Readily available nitrene precursors increase the scope of Evans' asymmetric aziridination of olefins. Tetrahedron: Asymmetry, 1997, 8, 3563-3565.	1.8	78

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55	Synthesis of (.+-.)-.alpha.- and (.+-.)-.gamma.-lycorane via a stereocontrolled organopalladium route. Journal of Organic Chemistry, 1991, 56, 2988-2993.	3.2	76
56	Studies of Allylic Substitution Catalysed by a Palladium Complex of a C₂â€Symmetric Bis(aziridine): Preparation and NMR Spectroscopic Investigation of a Chiral Ï€â€Allyl Species. Chemistry - A European Journal, 1995, 1, 12-16.	3.3	75
57	Asymmetric Total Synthesis of (+)-Tolterodine, a New Muscarinic Receptor Antagonist, via Copper-Assisted Asymmetric Conjugate Addition of Aryl Grignard Reagents to 3-Phenyl-prop-2-enoyl-oxazolidinones. Journal of Organic Chemistry, 1998, 63, 8067-8070.	3.2	74
58	Highly Enantioselective Iridiumâ€Catalyzed Hydrogenation of Î±,Î²â€Unsaturated Esters. Chemistry - A European Journal, 2012, 18, 10609-10616.	3.3	74
59	Iridium Catalysts with Chiral Imidazoleâ€Phosphine Ligands for Asymmetric Hydrogenation of Vinyl Fluorides and other Olefins. Advanced Synthesis and Catalysis, 2008, 350, 1168-1176.	4.3	73
60	Highly Enantioselective Intermolecular Cu(I)-Catalyzed Cyclopropanation of Cyclic Enol Ethers. Asymmetric Total Synthesis of (+)-Quebrachamine. Journal of Organic Chemistry, 1998, 63, 6007-6015.	3.2	69
61	Iridium-catalyzed enantioselective hydrogenation of vinyl boronates. Chemical Communications, 2009, , 5996.	4.1	69
62	Highly Flexible Synthesis of Chiral Azacycles via Iridium-Catalyzed Hydrogenation. Journal of the American Chemical Society, 2010, 132, 8880-8881.	13.7	69
63	A new class of bis-oxazoline ligands for the Cu-catalysed asymmetric cyclopropanation of olefins. Tetrahedron Letters, 1996, 37, 4073-4076.	1.4	68
64	Iridium-Catalyzed Hydrogen Transfer Reactions. Topics in Organometallic Chemistry, 2011, , 77-106.	0.7	66
65	A Theoretical and Experimental Study of the Asymmetric Addition of Dialkylzinc toN-(Diphenylphosphinoyl)benzalimine. Chemistry - A European Journal, 1999, 5, 1692-1699.	3.3	65
66	Asymmetric Hydrogenation of Di and Trisubstituted Enol Phosphinates with N,P-Ligated Iridium Complexes. Journal of the American Chemical Society, 2008, 130, 5595-5599.	13.7	65
67	Iridium-Catalyzed Asymmetric Hydrogenation of Olefins with Chiral N,P and C,N Ligands. Topics in Organometallic Chemistry, 2011, , 31-76.	0.7	64
68	Highly Enantioselective Asymmetric Isomerization of Primary Allylic Alcohols with an Iridiumâ€“N,P Complex. Chemistry - A European Journal, 2011, 17, 11143-11145.	3.3	61
69	Ir-Catalyzed Functionalization of Câ€“H Bonds. Topics in Organometallic Chemistry, 2011, , 139-167.	0.7	60
70	A dramatic ligand effect on the relative reactivities of substituted alkenes with osmium tetroxide. Journal of the American Chemical Society, 1993, 115, 7047-7048.	13.7	58
71	Adaptative Biaryl Phosphiteâ€“Oxazole and Phosphiteâ€“Thiazole Ligands for Asymmetric Irâ€Catalyzed Hydrogenation of Alkenes. Chemistry - A European Journal, 2010, 16, 4567-4576.	3.3	58
72	Experimental and Theoretical Mechanistic Investigation of the Iridium-Catalyzed Dehydrogenative Decarbonylation of Primary Alcohols. Journal of the American Chemical Society, 2015, 137, 834-842.	13.7	58

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73	New Catalysts for the Base-Promoted Isomerization of Epoxides to Allylic Alcohols. Broadened Scope and Near-Perfect Asymmetric Induction. Journal of Organic Chemistry, 2002, 67, 1567-1573.	3.2	57
74	Novel Catalytic Kinetic Resolution of Racemic Epoxides to Allylic Alcohols. Organic Letters, 2002, 4, 3777-3779.	4.6	57
75	Stereocontrolled oxaspirocyclization of conjugated dienes via palladium catalysis. Journal of Organic Chemistry, 1991, 56, 2274-2276.	3.2	56
76	Stereocontrolled lactonization reactions via palladium-catalysis. Tetrahedron Letters, 1989, 30, 137-140.	1.4	55
77	Stereocontrolled lactonization reactions via palladium-catalyzed 1,4-addition to conjugated dienes. Journal of Organic Chemistry, 1993, 58, 5445-5451.	3.2	54
78	On "The origin of high enantioselectivity in the dihydroxylation of olefins using osmium tetraoxide and cinchona alkaloid catalysts". Journal of the American Chemical Society, 1993, 115, 12226-12227.	13.7	54
79	Synthesis and evaluation of N,S-compounds as chiral ligands for transfer hydrogenation of acetophenoneElectronic supplementary information (ESI) available: NMR spectra. See http://www.rsc.org/suppdata/ob/b2/b208907f/. Organic and Biomolecular Chemistry, 2003, 1, 358-366.	2.8	53
80	Carbon-carbon bond formation in palladium(II)-catalyzed intramolecular 1,4-oxidation of conjugated dienes. Tetrahedron Letters, 1994, 35, 5713-5716.	1.4	51
81	Biaryl phosphite-oxazolines from hydroxyl aminoacid derivatives: highly efficient modular ligands for Ir-catalyzed hydrogenation of alkenes. Chemical Communications, 2008, , 3888.	4.1	50
82	Enantio- and Regioselective Ir-Catalyzed Hydrogenation of Di- and Trisubstituted Cycloalkenes. Journal of the American Chemical Society, 2016, 138, 11930-11935.	13.7	50
83	Catalytic Asymmetric Total Synthesis of the Muscarinic Receptor Antagonist (R)-Tolterodine. Advanced Synthesis and Catalysis, 2005, 347, 662-666.	4.3	49
84	Iridium-Catalysed Asymmetric Hydrogenation of Vinylsilanes as a Route to Optically Active Silanes. Advanced Synthesis and Catalysis, 2006, 348, 2575-2578.	4.3	48
85	Development of new thiazole-based iridium catalysts and their applications in the asymmetric hydrogenation of trisubstituted olefins. Organic and Biomolecular Chemistry, 2008, 6, 366-373.	2.8	48
86	Enantioconvergent and enantiodivergent catalytic hydrogenation of isomeric olefins. Chemical Society Reviews, 2020, 49, 2504-2522.	38.1	48
87	Mechanism of the Palladium-Catalyzed Elimination of Acetic Acid from Allylic Acetates. Organometallics, 1995, 14, 1-2.	2.3	47
88	Development of iridium-catalyzed asymmetric hydrogenation: New catalysts, new substrate scope. Journal of Organometallic Chemistry, 2012, 714, 3-11.	1.8	47
89	Synthesis of furanoid terpenes via an efficient palladium-catalyzed cyclization of 4,6-dienols. Journal of Organic Chemistry, 1991, 56, 5349-5353.	3.2	46
90	Total synthesis of balanol, part 2. Completion of the synthesis and investigation of the structure and reactivity of two key heterocyclic intermediates. Tetrahedron, 1997, 53, 4857-4868.	1.9	44

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91	Microwaveâ€Assisted Asymmetric Intermolecular Heck Reaction using Phosphineâ€Thiazole Ligands. Advanced Synthesis and Catalysis, 2007, 349, 2595-2602.	4.3	44
92	Highly Selective Iridiumâ€Catalyzed Asymmetric Hydrogenation of Trifluoromethyl Olefins: A New Route to Trifluoromethylâ€•Bearing Stereocenters. Advanced Synthesis and Catalysis, 2009, 351, 375-378.	4.3	44
93	Selective Metalâ€Catalyzed Transfer of H₂ and CO from Polyols to Alkenes. ChemSusChem, 2013, 6, 426-429.	6.8	44
94	Câ€“N Coupling of Amides with Alcohols Catalyzed by N-Heterocyclic Carbeneâ€“Phosphine Iridium Complexes. Journal of Organic Chemistry, 2015, 80, 11529-11537.	3.2	44
95	Syntheses of Theaspirone and VitispiraneviaPalladium(II)-Catalyzed Oxaspirocyclization. Journal of Organic Chemistry, 1996, 61, 1825-1829.	3.2	42
96	Phosphite-oxazole/imidazoleligands in asymmetric intermolecular Heck reaction. Organic and Biomolecular Chemistry, 2011, 9, 941-946.	2.8	42
97	Chiral Heteroâ€•and Carbocyclic Compounds from the Asymmetric Hydrogenation of Cyclic Alkenes. Chemistry - A European Journal, 2012, 18, 6507-6513.	3.3	42
98	Aziridino alcohols as catalysts for the enantioselective addition of diethylzinc to aldehydes. Tetrahedron, 1998, 54, 14213-14232.	1.9	41
99	Simple Aziridino Alcohols as Chiral Ligands. Enantioselective Additions of Diethylzinc to N-Diphenylphosphinoylimines. Synlett, 1996, 1996, 727-728.	1.8	39
100	Access to chiral tertiary amines via the iridium-catalyzed asymmetric hydrogenation of enamines. Tetrahedron Letters, 2008, 49, 7290-7293.	1.4	39
101	(1S, 3R, 4R)-2-Azanorbornyl-3-methanol oxazaborolidines in the asymmetric reduction of ketones. Tetrahedron, 1998, 54, 7897-7906.	1.9	38
102	Asymmetric reduction of azirines; a new route to chiral aziridines. Chemical Communications, 2002, , 1752-1753.	4.1	38
103	Revisiting the Stereodetermining Step in Enantioselective Iridium-Catalyzed Imine Hydrogenation. ACS Catalysis, 2018, 8, 615-623.	11.2	38
104	The use of stabilized carbon nucleophiles in palladium(II)-catalyzed 1,4-oxidation of conjugated dienes. Tetrahedron Letters, 1997, 38, 3603-3606.	1.4	37
105	New Expedient Route to Both Enantiomers of Nonproteinogenic Î±-Amino Acid Derivatives from the Unsaturated 2-Aza-Bicyclo Moiety. Journal of Organic Chemistry, 1999, 64, 2276-2280.	3.2	37
106	Catalytic Water Oxidation by a Molecular Ruthenium Complex: Unexpected Generation of a Single-Site Water Oxidation Catalyst. Inorganic Chemistry, 2015, 54, 4611-4620.	4.0	37
107	A synthetic approach to the Zoanthamine alkaloids. Tetrahedron, 1994, 50, 9135-9144.	1.9	36
108	Asymmetric hydrogenation of tri-substituted alkenes with Ir-NHC-thiazole complexes. Tetrahedron Letters, 2006, 47, 7477-7480.	1.4	36

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109	Bicyclic phosphine-thiazole ligands for the asymmetric hydrogenation of olefins. Tetrahedron: Asymmetry, 2010, 21, 1328-1333.	1.8	36
110	Sequential Birch reaction and asymmetric Ir-catalyzed hydrogenation as a route to chiral building blocks. Chemical Communications, 2011, 47, 3989.	4.1	36
111	Palladium-catalyzed oxaspirocyclizations. Tetrahedron, 1994, 50, 559-572.	1.9	35
112	Dielsâ^'Alder Reaction of Heterocyclic Imine Dienophiles. Journal of Organic Chemistry, 2000, 65, 2810-2812.	3.2	35
113	Multigram scale synthesis of a useful aza-Dielsâ€"Alder adduct in a one-step procedure. Tetrahedron: Asymmetry, 2002, 13, 447-449.	1.8	35
114	Diastereo- and Enantioselective Synthesis of Fluorine Motifs with Two Contiguous Stereogenic Centers. Journal of the American Chemical Society, 2018, 140, 13878-13883.	13.7	35
115	Asymmetric Catalysis via Chiral Aziridines.. Acta Chemica Scandinavica, 1996, 50, 361-368.	0.7	35
116	Chiral N,Nâ€˜- and N,O-Bidentate Anionic Ligands. Preparation, Metal Complexation, and Evaluation in the Asymmetric Aziridination of Olefins. Organometallics, 1999, 18, 1281-1286.	2.3	34
117	Asymmetric Hydrogenation of Allylic Alcohols Using Irâ€"N,P-Complexes. ACS Catalysis, 2016, 6, 8342-8349.	11.2	34
118	Iridium-catalysed asymmetric hydrogenation of allylic alcohols via dynamic kinetic resolution. Nature Catalysis, 2018, 1, 438-443.	34.4	34
119	Asymmetric addition of diethylzinc to N-(diphenylphosphinoyl) imines. Tetrahedron, 2001, 57, 1615-1618.	1.9	33
120	Synthesis and Screening of C¹â€Substituted Tetrahydroisoquinoline Derivatives for Asymmetric Transfer Hydrogenation Reactions. European Journal of Organic Chemistry, 2010, 2010, 972-980.	2.4	33
121	Extending the Substrate Scope of Bicyclic Pâ€Oxazoline/Thiazole Ligands for Irâ€Catalyzed Hydrogenation of Unfunctionalized Olefins by Introducing a Biaryl Phosphoroamidite Group. Chemistry - A European Journal, 2015, 21, 3455-3464.	3.3	32
122	Regioselective Iridium-Catalyzed Asymmetric Monohydrogenation of 1,4-Dienes. Journal of the American Chemical Society, 2017, 139, 14470-14475.	13.7	31
123	A comparative study of C2-symmetric bis(aziridine) ligands in some transition metal-mediated asymmetric transformations. Tetrahedron, 1998, 54, 15731-15738.	1.9	30
124	Development of pinene-derived N,P ligands and their utility in catalytic asymmetric hydrogenation. Dalton Transactions, 2007, , 5603.	3.3	30
125	Enantioselective addition of organolithium reagents to imines mediated by C2-symmetric bis(aziridine) ligands. Tetrahedron, 1998, 54, 11549-11566.	1.9	29
126	A New Class of Modular P,Nâ€Ligand Library for Asymmetric Pdâ€Catalyzed Allylic Substitution Reactions: A Study of the Key Pdâ€"Ïâ€Allyl Intermediates. Chemistry - A European Journal, 2010, 16, 620-638.	3.3	29

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127	Palladium(II)-catalyzed carbocyclization: Vinylpalladium in 1,4-oxidation of conjugated dienes. Tetrahedron, 1996, 52, 7511-7523.	1.9	28
128	Asymmetric Synthesis of Alkyl Fluorides: Hydrogenation of Fluorinated Olefins. Angewandte Chemie - International Edition, 2019, 58, 9282-9287.	13.8	28
129	The aza-Dielsâ€“Alder reaction protocolâ€”a useful approach to chiral, sterically constrained Î±-amino acid derivatives. Tetrahedron, 2001, 57, 6399-6406.	1.9	27
130	Phosphineâ€Free Cp*Ru(Diamine) Catalysts in the Hydrogenation of Imines. Chemistry - an Asian Journal, 2008, 3, 1390-1394.	3.3	27
131	Asymmetric base-promoted epoxide rearrangement: achiral lithium amides revisited. Tetrahedron, 2002, 58, 4665-4668.	1.9	26
132	Synthesis of tetrahydroisoquinoline-diamine ligands and their application in asymmetric transfer hydrogenation. Tetrahedron: Asymmetry, 2010, 21, 679-687.	1.8	26
133	A rigid dirhodium(II) carboxylate as an efficient catalyst for the asymmetric cyclopropanation of olefins. Journal of Organometallic Chemistry, 2000, 603, 13-17.	1.8	25
134	Development of new camphor based N,S chiral ligands and their application in transfer hydrogenationElectronic supplementary information (ESI) available: 13C NMR spectra. See http://www.rsc.org/suppdata/ob/b4/b402805h/. Organic and Biomolecular Chemistry, 2004, 2, 1887.	2.8	25
135	Synthesis of tetrahydroisoquinoline (TIQ)â€“oxazoline ligands and their application in enantioselective Henry reactions. Tetrahedron: Asymmetry, 2010, 21, 846-852.	1.8	25
136	Preparation of pyrrolidineâ€“oxazoline containing ligands and their application in asymmetric transfer hydrogenation. Tetrahedron, 2004, 60, 3405-3416.	1.9	24
137	Catalytic One-Pot Production of Small Organics from Polysaccharides. Synthesis, 2011, 2011, 1649-1677.	2.3	24
138	Iridium catalysis: application of asymmetric reductive hydrogenation. Dalton Transactions, 2013, 42, 14345.	3.3	23
139	Diastereo- and Enantioselective Synthesis of Structurally Diverse Succinate, Butyrolactone, and Trifluoromethyl Derivatives by Iridium-Catalyzed Hydrogenation of Tetrasubstituted Olefins. ACS Catalysis, 2019, 9, 6169-6176.	11.2	23
140	Cinchona alkaloid derived ligands in catalytic asymmetric transfer hydrogenation. Organic and Biomolecular Chemistry, 2003, 1, 2522.	2.8	22
141	Iridiumâ€Catalyzed Asymmetric Hydrogenation of Substituted Pyridines. Asian Journal of Organic Chemistry, 2013, 2, 1061-1065.	2.7	22
142	On the stereochemical outcome of the McMurry coupling of acetophenone. A reinvestigation. Tetrahedron Letters, 1994, 35, 2609-2610.	1.4	21
143	Development of a new class of (1S,3R,4R)-2-azabicyclo[2.2.1]heptane-oxazoline ligands and their application in asymmetric transfer hydrogenation. Tetrahedron, 2004, 60, 3393-3403.	1.9	21
144	Iridium-catalyzed asymmetric hydrogenation of olefins using TIQ phosphineâ€“oxazoline ligands. Tetrahedron: Asymmetry, 2010, 21, 2295-2301.	1.8	21

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145	Palladiumâ€Catalyzed Oxidative Synthesis of Î±â€Acetoxylated Enones from Alkynes. Angewandte Chemie - International Edition, 2016, 55, 5824-5828.	13.8	21
146	A ruthenium water oxidation catalyst based on a carboxamide ligand. Dalton Transactions, 2016, 45, 3272-3276.	3.3	21
147	Introduction and History. Topics in Organometallic Chemistry, 2011, , 1-10.	0.7	20
148	Palladium-mediated stereo- and regioselective tandem-cyclization-carbonylations of 13-dienes. Tetrahedron Letters, 1994, 35, 4441-4444.	1.4	19
149	Asymmetric Full Saturation of Vinylarenes with Cooperative Homogeneous and Heterogeneous Rhodium Catalysis. Journal of the American Chemical Society, 2021, 143, 20377-20383.	13.7	19
150	Hydrosilylation of Imines. , 0, , 321-337.		18
151	Metal-Catalyzed Reductive Aldol Coupling. , 0, , 387-417.		18
152	Palladium-catalyzed reaction of a malonate anion with a glycine cation equivalent: Bis-phosphine ligands and in situ catalyst formation. Tetrahedron Letters, 1995, 36, 4205-4208.	1.4	17
153	Regio- and Stereoselective Deuteration of Allylic Chlorides Controlled by Neighboring Alcohol or Ether Groups. Journal of Organic Chemistry, 1996, 61, 4154-4156.	3.2	17
154	Kinetic resolution of racemic epoxides using a chiral diamine catalyst. Tetrahedron Letters, 2005, 46, 4805-4807.	1.4	17
155	Diverse Modes of Silane Activation for the Hydrosilylation of Carbonyl Compounds. , 0, , 183-207.		17
156	Iridium-Catalyzed Hydrogenation Using Phosphorus Ligands. Topics in Organometallic Chemistry, 2011, , 11-29.	0.7	17
157	Palladium-Catalyzed Stereocontrolled endo Cyclization of 3-hydroxypropyl-1,3-cyclohexadiene Leading to Versatile Fused Tetrahydropyrans.. Tetrahedron Letters, 1995, 36, 5397-5400.	1.4	16
158	Rapid Access to Enantiopure Bicyclic Diamines viaaza-Dielsâ^'Alder Reaction of Iminoamides. Journal of Organic Chemistry, 2000, 65, 6736-6738.	3.2	16
159	Application of O2-DMSO as Reoxidant in the Pd(II)-Catalyzed 1,4-Oxidation of 5-Substituted 1,3-Cyclohexadienes.. Acta Chemica Scandinavica, 1997, 51, 773-777.	0.7	16
160	Reduction of Carbonyl Compounds by Hydrogen Transfer. , 0, , 135-157.		15
161	Catalytic asymmetric carbonâ€“carbon bond forming reactions catalyzed by tetrahydroisoquinoline (TIQ) N,Nâ€²-dioxide ligands. Tetrahedron: Asymmetry, 2013, 24, 191-195.	1.8	15
162	Iridium-catalysed enantioselective formal deoxygenation of racemic alcohols via asymmetric hydrogenation. Nature Catalysis, 2019, 2, 1093-1100.	34.4	15

#	Article	IF	Citations
163	Enantiocontrolled Formal Total Synthesis of Paeonilactone A and B from (S)-(+)-Carvone.. Acta Chemica Scandinavica, 1998, 52, 524-527.	0.7	15
164	Combined Theoretical and Experimental Studies Unravel Multiple Pathways to Convergent Asymmetric Hydrogenation of Enamides. Journal of the American Chemical Society, 2021, 143, 21594-21603.	13.7	15
165	Tandem Peterson olefination and chemoselective asymmetric hydrogenation of Î²-hydroxy silanes. Chemical Science, 2019, 10, 3649-3653.	7.4	14
166	The use of nonactivated iminodienophiles in the stereoselective aza-Dielsâ€“Alder reaction. Tetrahedron: Asymmetry, 2004, 15, 445-452.	1.8	13
167	Kinetic resolution of racemic allylic alcohols via iridium-catalyzed asymmetric hydrogenation: scope, synthetic applications and insight into the origin of selectivity. Chemical Science, 2021, 12, 1937-1943.	7.4	13
168	Highly Enantioselective Iridium-Catalyzed Hydrogenation of Conjugated Trisubstituted Enones. Organic Letters, 2021, 23, 242-246.	4.6	13
169	Iridium-catalyzed enantioconvergent hydrogenation of trisubstituted olefins. Nature Communications, 2022, 13, 361.	12.8	13
170	Bicyclic O,P Ligands for Catalytic Asymmetric 1,4-Addition toÎ±,Î²-Unsaturated Ketones. Advanced Synthesis and Catalysis, 2004, 346, 549-553.	4.3	12
171	Irâ€Catalyzed Asymmetric and Regioselective Hydrogenation of Cyclic Allylsilanes and Generation of Quaternary Stereocenters via the Hosomiâ€Sakurai Allylation. Chemistry - A European Journal, 2018, 24, 1681-1685.	3.3	12
172	Asymmetric Total Synthesis of (â^')-Juvabione via Sequential Ir-Catalyzed Hydrogenations. Organic Letters, 2018, 20, 5676-5679.	4.6	12
173	Asymmetric synthesis of 1,2-fluorohydrin: iridium catalyzed hydrogenation of fluorinated allylic alcohol. Chemical Science, 2020, 11, 11189-11194.	7.4	12
174	Development of an asymmetric palladium-catalysed elimination. Tetrahedron: Asymmetry, 1996, 7, 2467-2470.	1.8	11
175	Ethnobotanical Survey and Toxicity Evaluation of Medicinal Plants used for Fungal Remedy in the Southern Highlands of Tanzania. Journal of Intercultural Ethnopharmacology, 2017, 6, 84.	0.9	11
176	Transitionâ€Metalâ€Catalyzed Regioselective Asymmetric Monoâ€Hydrogenation of Dienes and Polyenes. Chemistry - A European Journal, 2018, 24, 8022-8028.	3.3	11
177	Bi(OTf)₃ Enabled Câ€F Bond Cleavage in HFIP: Electrophilic Aromatic Formylation with Difluoro(phenylsulfanyl)methane. Asian Journal of Organic Chemistry, 2018, 7, 1642-1647.	2.7	11
178	Studies on a Chiral (N,P) Ligand Containing a C2-Symmetric Aziridine Unit.. Acta Chemica Scandinavica, 1999, 53, 263-268.	0.7	11
179	Exploring the Substrate Scope of the Ru(II)-Catalyzed Kharasch Reaction. Collection of Czechoslovak Chemical Communications, 2007, 72, 1005-1013.	1.0	10
180	Iridium Catalysts with Chiral Bicyclic Pyridineâ€“Phosphane Ligands for the Asymmetric Hydrogenation of Olefins. European Journal of Organic Chemistry, 2014, 2014, 140-146.	2.4	10

#	Article	IF	Citations
181	Cationic NHCâ€Phosphine Iridium Complexes: Highly Active Catalysts for Baseâ€Free Hydrogenation of Ketones. Chemistry - A European Journal, 2020, 26, 13311-13316.	3.3	10
182	Synthesis of 6-Substituted 7-Bomoazabicyclo[2.2.1]heptanesvia Nucleophilic Addition to 3-Bromo-1-azoniatricyclo[2.2.1.0]-heptane Bromide. Advanced Synthesis and Catalysis, 2005, 347, 1242-1246.	4.3	9
183	New ligands for the RuCpâ^—-diamine catalysed asymmetric hydrogenation of aryl ketones. Comptes Rendus Chimie, 2007, 10, 213-219.	0.5	9
184	Formal Total Synthesis of Aliskiren. Chemistry - A European Journal, 2015, 21, 7292-7296.	3.3	9
185	Catalystâ€“solvent interactions in a dinuclear Ru-based water oxidation catalyst. Dalton Transactions, 2016, 45, 19024-19033.	3.3	9
186	A novel synthesis of chiral cyclopentyl- and cyclohexyl-amines. Chemical Communications, 1999, , 597-598.	4.1	8
187	A DFT exploration of the enantioselective rearrangement of cyclohexene oxide to cyclohexenol. Tetrahedron, 2003, 59, 9695-9700.	1.9	8
188	Alkene Reduction: Hydrosilylation. , 0, , 87-105.		8
189	Simple Prolineâ€Derived Phosphineâ€Thiazole Iridium Complexes for Asymmetric Hydrogenation of Trisubstituted Olefins. Asian Journal of Organic Chemistry, 2013, 2, 674-680.	2.7	8
190	Highly Diastereoselective Reaction of 2-Azanorbornyl Enolates with Electrophiles. Organic Letters, 1999, 1, 1595-1597.	4.6	6
191	Stereoselective Iridium-N,P-Catalyzed Double Hydrogenation of Conjugated Enones to Saturated Alcohols. Journal of the American Chemical Society, 2022, 144, 8734-8740.	13.7	6
192	Iridium-Catalyzed 1,3-Dipolar Cycloadditions. Topics in Organometallic Chemistry, 2011, , 209-229.	0.7	5
193	Asymmetric Synthesis of Alkyl Fluorides: Hydrogenation of Fluorinated Olefins. Angewandte Chemie, 2019, 131, 9383-9388.	2.0	5
194	Palladium-Catalyzed Allylic, Propargylic, and Allenic Substitution with Nitrogen, Oxygen, and Other Groups 15â€“17 Heteroatom Nucleophiles: Cï£¿O and Cï£¿N Bond Formation Involving Conjugated Dienes and Allylpalladium Intermediates. , 0, , 1859-1874.		4
195	Reduction of Functionalized Alkenes. , 0, , 1-38.		4
196	Thiazole, Imidazole and Oxazoline Based N,Pâ€Ligands for Palladiumâ€Catalyzed Cycloisomerization of 1,6â€Enynes. European Journal of Organic Chemistry, 2016, 2016, 3427-3433.	2.4	4
197	Siteâ€and Enantioselective Iridiumâ€Catalyzed Desymmetric Monoâ€Hydrogenation of 1,4â€Dienes. Angewandte Chemie - International Edition, 2021, 60, 19428-19434.	13.8	4
198	Exploring the Chemistry of 3-Substituted 2-Azanorbornyls in Asymmetric Catalysis. Synlett, 2000, 2000, 1092-1106.	1.8	3

#	Article	IF	Citations
199	Birch Reaction Followed by Asymmetric Iridium-Catalysed Hydrogenation. Synthesis, 2011, 2011, 3796-3800.	2.3	3
200	Palladiumâ€Catalyzed Oxidative Synthesis of Î±â€Acetoxylated Enones from Alkynes. Angewandte Chemie, 2016, 128, 5918-5922.	2.0	3
201	Stereodivergent Synthesis of Trisubstituted Enamides: Direct Access to Both Pure Geometrical Isomers. Journal of Organic Chemistry, 2019, 84, 13540-13548.	3.2	3
202	Asymmetric hydrogenation of unfunctionalized olefins or with poorly coordinative groups. Advances in Catalysis, 2021, 68, 135-203.	0.2	3
203	Synthesis of Chiral Tetrahydro-3-benzazepine Motifs by Iridium-Catalyzed Asymmetric Hydrogenation of Cyclic Ene-carbamates. Organic Letters, 2022, 24, 1969-1973.	4.6	3
204	Catalytic enantioselective synthesis of fluoromethylated stereocenters by asymmetric hydrogenation. Chemical Science, 0, , .	7.4	3
205	Palladium-catalyzed stereocontrolled endo cyclization of 3-hydroxypropyl-1,3-cyclohexadiene leading to versatile fused tetrahydropyrans. Tetrahedron Letters, 1995, 36, 5397-5400.	1.4	2
206	In vitro study for antifungal compounds from Parinari curatellifolia (Chrysobalanaceae) and Terminalia sericea (Combretaceae). International Journal of Biological and Chemical Sciences, 2021, 15, 367-378.	0.2	2
207	Monoâ€Nâ€Alkylation of Sulfonamides with Alcohols Catalyzed by Iridium Nâ€Heterocyclic Carbeneâ€Phosphine Complexes. Asian Journal of Organic Chemistry, 0, , .	2.7	2
208	Development of a new methodology for the preparation of optically active alcohols. Pure and Applied Chemistry, 2004, 76, 547-555.	1.9	1
209	Alkene and Imino Reductions by Organocatalysis. , 0, , 339-361.		1
210	Siteâ€and Enantioselective Iridiumâ€Catalyzed Desymmetric Monoâ€Hydrogenation of 1,4â€Dienes. Angewandte Chemie, 2021, 133, 19577-19583.	2.0	1
211	Novel Catalytic Kinetic Resolution of Racemic Epoxides to Allylic Alcohols.. ChemInform, 2003, 34, no.	0.0	0
212	Synthesis and Evaluation of N,S-Compounds as Chiral Ligands for Transfer Hydrogenation of Acetophenone.. ChemInform, 2003, 34, no.	0.0	0
213	Chinchona Alkaloid Derived Ligands in Catalytic Asymmetric Transfer Hydrogenation.. ChemInform, 2003, 34, no.	0.0	0
214	Development of a New Class of (1S,3R,4R)-2-Azabicyclo[2.2.1]heptane-oxazoline Ligands and Their Application in Asymmetric Transfer Hydrogenation.. ChemInform, 2004, 35, no.	0.0	0
215	Preparation of Pyrrolidineâ€"Oxazoline Containing Ligands and Their Application in Asymmetric Transfer Hydrogenation.. ChemInform, 2004, 35, no.	0.0	0
216	Development of New Camphor-Based N,S Chiral Ligands and Their Application in Transfer Hydrogenation. ChemInform, 2004, 35, no.	0.0	0

#	Article	IF	Citations
217	Rationally Designed Ligands for Asymmetric Iridium-Catalyzed Hydrogenation of Olefins.. ChemInform, 2005, 36, no.	0.0	0
218	Kinetic Resolution of Racemic Epoxides Using a Chiral Diamine Catalyst.. ChemInform, 2005, 36, no.	0.0	0
219	Frontispiece: Transitionâ€Metalâ€Catalyzed Regioselective Asymmetric Monoâ€Hydrogenation of Dienes and Polyenes. Chemistry - A European Journal, 2018, 24, .	3.3	0