

Shigeki Matsunaga

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ext. papers

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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
196	Pyrroloindolone synthesis via a Cp*Co(III)-catalyzed redox-neutral directed C-H alkenylation/annulation sequence. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5424-31	16.4	408
195	Recent progress in asymmetric bifunctional catalysis using multimetallic systems. <i>Accounts of Chemical Research</i> , 2009 , 42, 1117-27	24.3	404
194	A cationic high-valent Cp*Co(III) complex for the catalytic generation of nucleophilic organometallic species: directed C-H bond activation. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2207-11	16.4	369
193	(Pentamethylcyclopentadienyl)cobalt(III)-Catalyzed C-H Bond Functionalization: From Discovery to Unique Reactivity and Selectivity. <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 1245-1262	5.6	327
192	A bench-stable homodinuclear Ni ² -Schiff base complex for catalytic asymmetric synthesis of alpha-tetrasubstituted anti-alpha,beta-diamino acid surrogates. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2170-1	16.4	286
191	Air-Stable Carbonyl(pentamethylcyclopentadienyl)cobalt Diodide Complex as a Precursor for Cationic (Pentamethylcyclopentadienyl)cobalt(III) Catalysis: Application for Directed C-2 Selective C-H Amidation of Indoles. <i>Advanced Synthesis and Catalysis</i> , 2014 , 356, 1491-1495	5.6	267
190	Cp*Co(III) Catalyzed Site-Selective C-H Activation of Unsymmetrical O-Acyl Oximes: Synthesis of Multisubstituted Isoquinolines from Terminal and Internal Alkynes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12968-72	16.4	254
189	Design and application of linked-BINOL chiral ligands in bifunctional asymmetric catalysis. <i>Chemical Society Reviews</i> , 2006 , 35, 269-79	58.5	249
188	Dehydrative Direct C-H Allylation with Allylic Alcohols under [Cp*Co(III)] Catalysis. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9944-7	16.4	242
187	Bismuth-catalyzed direct substitution of the hydroxy group in alcohols with sulfonamides, carbamates, and carboxamides. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 409-13	16.4	239
186	Catalytic asymmetric synthesis of 3-aminoxindoles: enantiofacial selectivity switch in bimetallic vs monometallic Schiff base catalysis. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1255-7	16.4	237
185	anti-Selective direct catalytic asymmetric Mannich-type reaction of hydroxyketone providing beta-amino alcohols. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4712-3	16.4	218
184	syn-Selective catalytic asymmetric nitro-Mannich reactions using a heterobimetallic Cu-Sm-Schiff base complex. <i>Journal of the American Chemical Society</i> , 2007 , 129, 4900-1	16.4	214
183	A homodinuclear Mn(III) ₂ -Schiff base complex for catalytic asymmetric 1,4-additions of oxindoles to nitroalkenes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9168-9	16.4	207
182	Catalytic Enantioselective meso-Epoxyde Ring Opening Reaction with Phenolic Oxygen Nucleophile Promoted by Gallium Heterobimetallic Multifunctional Complexes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 2252-2260	16.4	203
181	Recent advances in cooperative bimetallic asymmetric catalysis: dinuclear Schiff base complexes. <i>Chemical Communications</i> , 2014 , 50, 1044-57	5.8	198
180	Heterobimetallic transition metal/rare earth metal bifunctional catalysis: a Cu/Sm/Schiff base complex for syn-selective catalytic asymmetric nitro-Mannich reaction. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4925-34	16.4	186

179	Direct catalytic asymmetric aldol reaction of hydroxyketones: asymmetric Zn catalysis with a Et ₂ Zn/linked-BINOL complex. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2169-78	16.4	181
178	A heterobimetallic Pd/La/Schiff base complex for anti-selective catalytic asymmetric nitroaldol reactions and applications to short syntheses of beta-adrenoceptor agonists. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3230-3	16.4	172
177	Direct catalytic asymmetric aldol reaction: synthesis of either syn- or anti-alpha,beta-dihydroxy ketones. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2466-7	16.4	166
176	Direct catalytic asymmetric Mannich-type reaction of hydroxyketone using a Et ₂ Zn/linked-BINOL complex: synthesis of either anti- or syn-beta-amino alcohols. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8777-85	16.4	165
175	Cp*Co(III)-catalyzed C2-selective addition of indoles to imines. <i>Chemistry - A European Journal</i> , 2013 , 19, 9142-6	4.8	163
174	Direct catalytic asymmetric vinylogous Mannich-type and Michael reactions of an alpha,beta-unsaturated gamma-butyrolactam under dinuclear nickel catalysis. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3666-7	16.4	157
173	Stable, Storable, and Reusable Asymmetric Catalyst: A Novel La-linked-BINOL Complex for the Catalytic Asymmetric Michael Reaction. <i>Journal of the American Chemical Society</i> , 2000 , 122, 6506-6507	16.4	157
172	Cooperative catalysis of a cationic ruthenium complex, amine base, and Na salt: catalytic activation of acetonitrile as a nucleophile. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13632-3	16.4	147
171	Catalytic asymmetric total synthesis of chimonanthine, folicanthine, and calycanthine through double Michael reaction of bisoxindole. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5217-21	16.4	143
170	Stereodivergent direct catalytic asymmetric Mannich-type reactions of isothiocyanato ester with ketimines. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4382-5	16.4	143
169	Catalytic asymmetric 1,4-addition reactions using alpha,beta-unsaturated N-acylpyrroles as highly reactive monodentate alpha,beta-unsaturated ester surrogates. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7559-70	16.4	143
168	Lewis acid-Lewis acid heterobimetallic cooperative catalysis: mechanistic studies and application in enantioselective aza-Michael reaction. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13419-27	16.4	142
167	A Cationic High-Valent Cp*Co(III) Complex for the Catalytic Generation of Nucleophilic Organometallic Species: Directed C-H Bond Activation. <i>Angewandte Chemie</i> , 2013 , 125, 2263-2267	3.6	139
166	A heterobimetallic Ga/Yb-Schiff base complex for catalytic asymmetric alpha-addition of isocyanides to aldehydes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8384-5	16.4	138
165	Direct catalytic aldol-type reactions using RCH ₂ CN. <i>Organic Letters</i> , 2003 , 5, 3147-50	6.2	136
164	Lewis acid catalyzed benzylic C-H bond functionalization of azaarenes: addition to enones. <i>Organic Letters</i> , 2011 , 13, 1706-9	6.2	132
163	Enantioselective C(sp ³)-H Amidation of Thioamides Catalyzed by a Cobalt/Chiral Carboxylic Acid Hybrid System. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1153-1157	16.4	132
162	Cobalt-catalyzed C4-selective direct alkylation of pyridines. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3213-6	16.4	130

161	Bismuth-catalyzed intermolecular hydroamination of 1,3-dienes with carbamates, sulfonamides, and carboxamides. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1611-4	16.4	128
160	Hybrid Catalysis Enabling Room-Temperature Hydrogen Gas Release from N-Heterocycles and Tetrahydronaphthalenes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2204-2207	16.4	125
159	An asymmetric cyanation reaction and sequential asymmetric cyanation-nitroaldol reaction using a [YLi(3)[tris(binaphthoxide)]] single catalyst component: catalyst tuning with achiral additives. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3636-8, 3517	16.4	125
158	Construction of contiguous tetrasubstituted chiral carbon stereocenters via direct catalytic asymmetric aldol reaction of alpha-isothiocyanato esters with ketones. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17082-3	16.4	123
157	A stable homodinuclear biscobalt(III)-Schiff base complex for catalytic asymmetric 1,4-addition reactions of beta-keto esters to alkynones. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2218-20	16.4	121
156	Direct catalytic asymmetric Mannich-type reactions of N-(2-hydroxyacetyl)pyrrole as an ester-equivalent donor. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4365-8	16.4	115
155	A Cp*Co ₂ -dimer as a precursor for cationic Co(III)-catalysis: application to C-H phosphoramidation of indoles. <i>Chemical Communications</i> , 2015 , 51, 4659-61	5.8	113
154	Mixed La-Li heterobimetallic complexes for tertiary nitroaldol resolution. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11776-7	16.4	109
153	Cp*Co(III)-Catalyzed Dehydrative C-H Allylation of 6-Arylpurines and Aromatic Amides Using Allyl Alcohols in Fluorinated Alcohols. <i>Organic Letters</i> , 2016 , 18, 2216-9	6.2	105
152	Lanthanum aryloxide/pybox-catalyzed direct asymmetric Mannich-type reactions using a trichloromethyl ketone as a propionate equivalent donor. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9588-9	16.4	103
151	Linked-BINOL: An Approach towards Practical Asymmetric Multifunctional Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2002 , 344, 3	5.6	103
150	Catalytic asymmetric cyano-ethoxycarbonylation reaction of aldehydes using a YLi ₃ tris(binaphthoxide) (YLB) complex: mechanism and roles of achiral additives. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3413-22	16.4	101
149	Direct catalytic asymmetric Mannich-type reactions of gamma-butenolides: effectiveness of Brønsted acid in chiral metal catalysis. <i>Organic Letters</i> , 2008 , 10, 2319-22	6.2	100
148	Direct catalytic asymmetric Michael reaction of hydroxyketones: asymmetric Zn catalysis with a Et ₂ Zn/linked-BINOL complex. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2582-90	16.4	98
147	Multimetallic Bifunctional Asymmetric Catalysis Based on Proximity Effect Control. <i>Bulletin of the Chemical Society of Japan</i> , 2008 , 81, 60-75	5.1	94
146	Bismuth-Catalyzed Direct Substitution of the Hydroxy Group in Alcohols with Sulfonamides, Carbamates, and Carboxamides. <i>Angewandte Chemie</i> , 2007 , 119, 413-417	3.6	94
145	Diverse Approaches for Enantioselective C-H Functionalization Reactions Using Group 9 Cp M Catalysts. <i>Chemistry - A European Journal</i> , 2020 , 26, 7346-7357	4.8	91
144	Cp*Co(III)-catalyzed oxidative C-H alkenylation of benzamides with ethyl acrylate. <i>Tetrahedron</i> , 2015 , 71, 4552-4556	2.4	91

143	Catalytic asymmetric ring-opening of meso-aziridines with malonates under heterodinuclear rare earth metal Schiff base catalysis. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5791-3	16.4	91
142	Catalytic asymmetric cyclopropanation of enones with dimethyloxosulfonium methylide promoted by a La-Li3-(biphenyldiolate)3 + NaI complex. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13410-1	16.4	90
141	Pentamethylcyclopentadienyl rhodium(III)chiral disulfonate hybrid catalysis for enantioselective C-H bond functionalization. <i>Nature Catalysis</i> , 2018 , 1, 585-591	36.5	88
140	Chiral Carboxylic Acid Enabled Achiral Rhodium(III)-Catalyzed Enantioselective C-H Functionalization. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12048-12052	16.4	88
139	Enantioselective Ring Opening of Epoxides with 4-Methoxyphenol Catalyzed by Gallium Heterobimetallic Complexes: An Efficient Method for the Synthesis of Optically Active 1,2-Diol Monoethers. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 2223-2226	16.4	88
138	Cp*CoIII Catalyzed Site-Selective C-H Activation of Unsymmetrical O-Acyl Oximes: Synthesis of Multisubstituted Isoquinolines from Terminal and Internal Alkynes. <i>Angewandte Chemie</i> , 2015 , 127, 13160-13164	36.5	87
137	Catalytic asymmetric synthesis of spirooxindoles by a mannich-type reaction of isothiocyanato oxindoles. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7007-10	16.4	87
136	Catalytic asymmetric synthesis of 2,2-disubstituted terminal epoxides via dimethyloxosulfonium methylide addition to ketones. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10078-9	16.4	87
135	Efficient two-step conversion of alpha,beta-unsaturated aldehydes to optically active gamma-oxy-alpha,beta-unsaturated nitriles and its application to the total synthesis of (+)-patulolide C. <i>Organic Letters</i> , 2003 , 5, 3021-4	6.2	87
134	Catalytic asymmetric synthesis of alpha-alkylidene-beta-hydroxy esters via dynamic kinetic asymmetric transformation involving Ba-catalyzed direct aldol reaction. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10842-3	16.4	86
133	Metal/linked-BINOL complexes: Applications in direct catalytic asymmetric Mannich-type reactions. <i>Journal of Organometallic Chemistry</i> , 2006 , 691, 2089-2100	2.3	85
132	Heterobimetallic catalysis in asymmetric 1,4-addition of O-alkylhydroxylamine to enones. <i>Journal of the American Chemical Society</i> , 2003 , 125, 16178-9	16.4	85
131	Stereoselective Synthesis of Tetrasubstituted Alkenes via a Cp*Co-Catalyzed C-H Alkenylation/Directing Group Migration Sequence. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7156-7160	16.4	82
130	Direct catalytic enantio- and diastereoselective aldol reaction using a Zn-Zn-linked-BINOL complex: a practical synthesis of syn-1,2-diols. <i>Organic Letters</i> , 2001 , 3, 1539-42	6.2	81
129	Sultam synthesis via Cu-catalyzed intermolecular carboamination of alkenes with N-fluorobenzenesulfonimide. <i>Organic Letters</i> , 2013 , 15, 2502-5	6.2	79
128	Catalytic asymmetric synthesis of 2,2-disubstituted oxetanes from ketones by using a one-pot sequential addition of sulfur ylide. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1677-80	16.4	77
127	Dehydrative Direct C-H Allylation with Allylic Alcohols under [Cp*CoIII] Catalysis. <i>Angewandte Chemie</i> , 2015 , 127, 10082-10085	3.6	76
126	Catalytic asymmetric aza-Morita-Baylis-Hillman reaction of methyl acrylate: role of a bifunctional La(O-iPr)3/linked-BINOL complex. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11988-92	16.4	72

125	A heterobimetallic Ni/La-salan complex for catalytic asymmetric decarboxylative 1,4-addition of malonic acid half-thioester. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 2351-4	4.5	72
124	Sequential Wittig olefination-catalytic asymmetric epoxidation with reuse of waste Ph ₃ P(O): application of alpha,beta-unsaturated N-acyl pyrroles as ester surrogates. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4680-4	16.4	72
123	Site- and Regioselective Monoalkenylation of Pyrroles with Alkynes via Cp*Co Catalysis. <i>Organic Letters</i> , 2016 , 18, 5732-5735	6.2	71
122	Solution structure of polytheonamide B, a highly cytotoxic nonribosomal polypeptide from marine sponge. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12941-5	16.4	71
121	Direct anti-selective catalytic asymmetric Mannich-type reactions of alpha-ketoanilides for the synthesis of gamma-amino amides and azetidine-2-amides. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3353-6	16.4	70
120	Stereodivergent catalytic doubly diastereoselective nitroaldol reactions using heterobimetallic complexes. <i>Organic Letters</i> , 2008 , 10, 2231-4	6.2	70
119	Ba-catalyzed direct Mannich-type reactions of a beta,gamma-unsaturated ester providing beta-methyl aza-Morita-Baylis-Hillman-type products. <i>Organic Letters</i> , 2007 , 9, 3387-90	6.2	69
118	Enantioselective Strecker-type reaction promoted by polymer-supported bifunctional catalyst. <i>Tetrahedron Letters</i> , 2001 , 42, 279-283	2	67
117	Non-C ₂ -symmetric, chirally economical, and readily tunable linked-binols: design and application in a direct catalytic asymmetric mannich-type reaction. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3470-4	16.4	65
116	Trichloromethyl ketones as synthetically versatile donors: application in direct catalytic mannich-type reactions and the stereoselective synthesis of azetidines. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 3146-50	16.4	64
115	Stereodivergent Direct Catalytic Asymmetric Mannich-Type Reactions of Isothiocyanato Ester with Ketimines. <i>Angewandte Chemie</i> , 2011 , 123, 4474-4477	3.6	63
114	Chiral gamma-amino amide synthesis by heterobimetallic lanthanum/lithium/Pybox-catalyzed direct asymmetric mannich-type reactions of alpha-keto anilides. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6847-50	16.4	63
113	Cobalt-Catalyzed C(sp ³) _H Functionalization Reactions. <i>Asian Journal of Organic Chemistry</i> , 2018 , 7, 1193-1205	3	61
112	Catalytic Enantioselective Methylene C(sp ³)-H Amidation of 8-Alkylquinolines Using a Cp*Rh/Chiral Carboxylic Acid System. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18154-18158	16.4	61
111	Cobalt-Catalyzed C-4 Selective Alkylation of Quinolines. <i>Advanced Synthesis and Catalysis</i> , 2014 , 356, 401-405	5.6	61
110	Immobilization of asymmetric multifunctional catalysts on an insoluble polymer. <i>Tetrahedron Letters</i> , 2000 , 41, 8473-8478	2	61
109	Direct catalytic asymmetric aldol reaction of beta-keto esters with formaldehyde promoted by a dinuclear Ni ₂ -Schiff base complex. <i>Chemical Communications</i> , 2009 , 5138-40	5.8	60
108	Catalytic nucleophilic activation of acetonitrile via a cooperative catalysis of cationic Ru complex, DBU, and NaPF ₆ . <i>Tetrahedron</i> , 2007 , 63, 8598-8608	2.4	60

107	Strategies for Constructing Diverse Chiral Environments in Multimetallic Bifunctional Asymmetric Catalysis. <i>Synlett</i> , 2008 , 2008, 1583-1602	2.2	59
106	syn-Selective catalytic asymmetric 1,4-addition of alpha-ketoanilides to nitroalkenes under dinuclear nickel catalysis. <i>Organic Letters</i> , 2010 , 12, 3246-9	6.2	57
105	Multimetallic Schiff Base Complexes as Cooperative Asymmetric Catalysts. <i>Synthesis</i> , 2013 , 45, 421-437	2.9	56
104	An efficient synthesis of bicyclic amidines by intramolecular cyclization. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 478-82	16.4	55
103	Direct catalytic asymmetric Mannich-type reaction of beta-keto phosphonate using a dinuclear Ni ₂ -Schiff base complex. <i>Organic Letters</i> , 2008 , 10, 3239-42	6.2	53
102	Dinuclear Ni ₂ -Schiff base complex-catalyzed asymmetric 1,4-addition of α -keto esters to nitroethylene toward (2,2)-amino acid synthesis. <i>Chemical Communications</i> , 2011 , 47, 469-71	5.8	52
101	The Merger of Photoredox and Cobalt Catalysis. <i>Trends in Chemistry</i> , 2020 , 2, 410-426	14.8	50
100	Cobalt-Catalyzed C4-Selective Direct Alkylation of Pyridines. <i>Angewandte Chemie</i> , 2013 , 125, 3295-3298	3.6	49
99	Enantioselective 1,4-addition of unmodified ketone catalyzed by a bimetallic Zn-Zn-linked-BINOL complex. <i>Organic Letters</i> , 2001 , 3, 4251-4	6.2	49
98	Enantioselective C(sp ³) α Amidation of Thioamides Catalyzed by a Cobalt(III)/Chiral Carboxylic Acid Hybrid System. <i>Angewandte Chemie</i> , 2019 , 131, 1165-1169	3.6	49
97	Cp*Co-catalyzed directed C-H trifluoromethylthiolation of 2-phenylpyridines and 6-arylpurines. <i>Chemical Communications</i> , 2017 , 53, 5974-5977	5.8	48
96	Chiral Carboxylic Acid Enabled Achiral Rhodium(III)-Catalyzed Enantioselective C β Functionalization. <i>Angewandte Chemie</i> , 2018 , 130, 12224-12228	3.6	47
95	Chiral 2-Aryl Ferrocene Carboxylic Acids for the Catalytic Asymmetric C(sp ³) α Activation of Thioamides. <i>Organometallics</i> , 2019 , 38, 3921-3926	3.8	47
94	Regiodivergent kinetic resolution of terminal and internal rac-aziridines with malonates under dinuclear Schiff base catalysis. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9190-4	16.4	47
93	Catalytic Asymmetric Total Synthesis of Chimonanthine, Folicanthine, and Calycanthine through Double Michael Reaction of Bisoxindole. <i>Angewandte Chemie</i> , 2012 , 124, 5307-5311	3.6	46
92	Bismuth- and hafnium-catalyzed hydroamination of vinyl arenes with sulfonamides, carbamates, and carboxamides. <i>Chemistry - an Asian Journal</i> , 2007 , 2, 150-4	4.5	46
91	Catalytic chemoselective addition of acetonitrile to enolizable aldehydes with cationic Ru complex/DBU combination. <i>Chemical Communications</i> , 2005 , 3600-2	5.8	45
90	Cobalt-Catalyzed Allylic Alkylation Enabled by Organophotoredox Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9199-9203	16.4	44

89	Lewis base assisted Brønsted base catalysis: bidentate phosphine oxides as activators and modulators of Brønsted basic lanthanum-aryloxides. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9125-9	16.4	44
88	Catalytic Asymmetric Iterative/Domino Aldehyde Cross-Aldol Reactions for the Rapid and Flexible Synthesis of 1,3-Polyols. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15418-21	16.4	43
87	Ligand accelerated indium(III)-catalyzed asymmetric alkynylation of aldehydes with 2-methyl-3-butyn-2-ol as an ethyne equivalent donor. <i>Chemical Communications</i> , 2007 , 948-50	5.8	43
86	A Heterobimetallic Pd/La/Schiff Base Complex for anti-Selective Catalytic Asymmetric Nitroaldol Reactions and Applications to Short Syntheses of β -Adrenoceptor Agonists. <i>Angewandte Chemie</i> , 2008 , 120, 3274-3277	3.6	42
85	Targeting Ras-Driven Cancer Cell Survival and Invasion through Selective Inhibition of DOCK1. <i>Cell Reports</i> , 2017 , 19, 969-980	10.6	41
84	Direct Catalytic Asymmetric Mannich-Type Reactions of N-(2-Hydroxyacetyl)pyrrole as an Ester-Equivalent Donor. <i>Angewandte Chemie</i> , 2005 , 117, 4439-4442	3.6	40
83	Catalytic asymmetric synthesis of spirooxindoles via addition of isothiocyanato oxindoles to aldehydes under dinuclear nickel Schiff base catalysis. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 1768-71	4.5	39
82	Multimetallic Multifunctional Catalysts for Asymmetric Reactions. <i>Topics in Organometallic Chemistry</i> , 2011 , 1-30	0.6	38
81	Catalytic asymmetric Michael reactions of dibenzyl malonate to β -unsaturated N-acylpyrroles using a La(O-iPr) ₃ /Ph-linked-BINOL complex. <i>Tetrahedron Letters</i> , 2007 , 48, 2815-2818	2	38
80	syn-selective direct catalytic asymmetric Mannich-type reactions of hydroxyketones using Y{N(SiMe ₃) ₂ } ₃ /linked-BINOL complexes. <i>Organic Letters</i> , 2005 , 7, 5339-42	6.2	37
79	Linking BINOL: C ₂ -symmetric ligands for investigations on asymmetric catalysis. <i>Tetrahedron Letters</i> , 1998 , 39, 7917-7920	2	36
78	Catalytic asymmetric epoxidation of α,β -unsaturated phosphane oxides with a Y(O-iPr) ₃ /biphenyldiol complex. <i>Chemistry - an Asian Journal</i> , 2008 , 3, 1500-4	4.5	35
77	Direct catalytic asymmetric Mannich-type reactions of isomerizable aliphatic imines: chemoselective enolate formation from a hydroxyketone by a Zn-catalyst. <i>Tetrahedron Letters</i> , 2006 , 47, 3985-3989	2	35
76	Weinreb Amide Directed Versatile C-H Bond Functionalization under (Pentamethylcyclopentadienyl)cobalt(III) Catalysis. <i>Chemistry - A European Journal</i> , 2018 , 24, 10231	4.8	34
75	Rhodium-catalyzed cross-aldol reaction: in situ aldehyde-enolate formation from allyloxyboranes and primary allylic alcohols. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10275-9	16.4	34
74	Catalytic Asymmetric Synthesis of 2,2-Disubstituted Oxetanes from Ketones by Using a One-Pot Sequential Addition of Sulfur Ylide. <i>Angewandte Chemie</i> , 2009 , 121, 1705-1708	3.6	33
73	Catalytic asymmetric 1,4-additions of β -keto esters to nitroalkenes promoted by a bifunctional homobimetallic Co ₂ -Schiff base complex. <i>Molecules</i> , 2010 , 15, 532-44	4.8	32
72	Catalytic asymmetric cyano-phosphorylation of aldehydes using a YLi ₃ tris(binaphthoxide) complex (YLB). <i>Tetrahedron: Asymmetry</i> , 2006 , 17, 566-573		32

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