

Keiji Maruoka

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285
papers

13,851
citations

62
h-index

109
g-index

302
ext. papers

15,417
ext. citations

8.3
avg, IF

7.12
L-index

#	Paper	IF	Citations
285	Enantioselective amino acid synthesis by chiral phase-transfer catalysis. <i>Chemical Reviews</i> , 2003 , 103, 3013-28	68.1	704
284	Recent advances of catalytic asymmetric 1,3-dipolar cycloadditions. <i>Chemical Reviews</i> , 2015 , 115, 5366-4682	68.1	658
283	Recent advances in asymmetric phase-transfer catalysis. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4222-66	16.4	644
282	Recent development and application of chiral phase-transfer catalysts. <i>Chemical Reviews</i> , 2007 , 107, 5656-82	68.1	628
281	Recent developments in asymmetric phase-transfer reactions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4312-48	16.4	509
280	Molecular Design of a C ₂ -Symmetric Chiral Phase-Transfer Catalyst for Practical Asymmetric Synthesis of α -Amino Acids. <i>Journal of the American Chemical Society</i> , 1999 , 121, 6519-6520	16.4	322
279	Practical Catalytic Enantioselective Synthesis of β -Dialkyl- α -Amino Acids by Chiral Phase-Transfer Catalysis. <i>Journal of the American Chemical Society</i> , 2000 , 122, 5228-5229	16.4	285
278	Design of N-spiro C ₂ -symmetric chiral quaternary ammonium bromides as novel chiral phase-transfer catalysts: synthesis and application to practical asymmetric synthesis of α -amino acids. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5139-51	16.4	283
277	Phosphonium salts as chiral phase-transfer catalysts: asymmetric Michael and Mannich reactions of 3-aryloxindoles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4559-61	16.4	231
276	Enantioselective base-free phase-transfer reaction in water-rich solvent. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16620-1	16.4	205
275	Design of axially chiral dicarboxylic acid for asymmetric Mannich reaction of arylaldehyde N-Boc imines and diazo compounds. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10054-5	16.4	196
274	anti-selective direct asymmetric Mannich reactions catalyzed by axially chiral amino sulfonamide as an organocatalyst. <i>Journal of the American Chemical Society</i> , 2005 , 127, 16408-9	16.4	196
273	Practical Aspects of Recent Asymmetric Phase-Transfer Catalysis. <i>Organic Process Research and Development</i> , 2008 , 12, 679-697	3.9	186
272	Powerful chiral phase-transfer catalysts for the asymmetric synthesis of α -alkyl- and α,α -dialkyl- α -amino acids. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1549-51	16.4	182
271	Design of new chiral phase-transfer catalysts with dual functions for highly enantioselective epoxidation of α,β -unsaturated ketones. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6844-5	16.4	179
270	Asymmetric organocatalysis of structurally well-defined chiral quaternary ammonium fluorides. <i>Accounts of Chemical Research</i> , 2004 , 37, 526-33	24.3	176
269	Binaphthyl-modified quaternary phosphonium salts as chiral phase-transfer catalysts: asymmetric amination of β -keto esters. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9466-8	16.4	174

268	Designer chiral quaternary ammonium bifluorides as an efficient catalyst for asymmetric nitroaldol reaction of silyl nitronates with aromatic aldehydes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2054-5	16.4	169
267	Design of an axially chiral amino acid with a binaphthyl backbone as an organocatalyst for a direct asymmetric aldol reaction. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3055-7	16.4	139
266	Neue Entwicklungen bei asymmetrischen Phasentransferreaktionen. <i>Angewandte Chemie</i> , 2013 , 125, 4408-4445	3.6	137
265	Development of highly diastereo- and enantioselective direct asymmetric aldol reaction of a glycinate Schiff base with aldehydes catalyzed by chiral quaternary ammonium salts. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9685-94	16.4	131
264	An organic thiyl radical catalyst for enantioselective cyclization. <i>Nature Chemistry</i> , 2014 , 6, 702-5	17.6	129
263	syn-selective and enantioselective direct cross-aldol reactions between aldehydes catalyzed by an axially chiral amino sulfonamide. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1738-40	16.4	121
262	Direct asymmetric hydroxyamination reaction catalyzed by an axially chiral secondary amine catalyst. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6046-7	16.4	121
261	Catalytic asymmetric alkynylation of C1-substituted C,N-cyclic azomethine imines by Cu(I)/chiral Brønsted acid co-catalyst. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8952-5	16.4	120
260	Highly enantioselective construction of quaternary stereocenters on beta-keto esters by phase-transfer catalytic asymmetric alkylation and Michael reaction. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 3796-8	16.4	119
259	Organoaluminum-promoted Claisen rearrangement of allyl vinyl ethers. <i>Journal of the American Chemical Society</i> , 1990 , 112, 316-322	16.4	114
258	Stereocontrolled synthesis of vicinal diamines by organocatalytic asymmetric Mannich reaction of N-protected aminoacetaldehydes: formal synthesis of (-)-agelastatin A. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7516-20	16.4	113
257	Direct asymmetric benzoyloxylolation of aldehydes catalyzed by 2-tritylpyrrolidine. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3450-1	16.4	112
256	A designer axially chiral amino sulfonamide as an efficient organocatalyst for direct asymmetric mannich reactions of N-Boc-protected imines. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1838-40	16.4	109
255	Chiral bifunctional phase transfer catalysts for asymmetric fluorination of beta-keto esters. <i>Chemical Communications</i> , 2010 , 46, 321-3	5.8	106
254	A practical synthesis of (S)-2-cyclohexyl-2-phenylglycolic acid via organocatalytic asymmetric construction of a tetrasubstituted carbon center. <i>Organic Letters</i> , 2005 , 7, 5103-5	6.2	102
253	A designer axially chiral amino sulfonamide as an efficient organocatalyst for direct asymmetric anti-selective Mannich reactions and syn-selective cross-aldol reactions. <i>Chemistry - A European Journal</i> , 2009 , 15, 6678-87	4.8	101
252	Organoaluminum-promoted rearrangement of epoxy silyl ethers to .beta.-siloxy aldehydes. <i>Journal of the American Chemical Society</i> , 1989 , 111, 6431-6432	16.4	99
251	Epoxy silyl ether rearrangements: a new, stereoselective approach to the synthesis of .beta.-hydroxy carbonyl compounds. <i>Journal of the American Chemical Society</i> , 1986 , 108, 3827-3829	16.4	97

- 250 Metal-free C-H bond activation of branched aldehydes with a hypervalent iodine(III) catalyst under visible-light photolysis: successful trapping with electron-deficient olefins. *Angewandte Chemie - International Edition*, **2014**, 53, 11060-4 16.4 93
- 249 Asymmetric induction in the Neber rearrangement of simple ketoxime sulfonates under phase-transfer conditions: experimental evidence for the participation of an anionic pathway. *Journal of the American Chemical Society*, **2002**, 124, 7640-1 16.4 93
- 248 Design of bifunctional quaternary phosphonium salt catalysts for CO₂ fixation reaction with epoxides under mild conditions. *Green Chemistry*, **2016**, 18, 4611-4615 10 92
- 247 Organocatalyzed direct asymmetric alpha-halogenation of carbonyl compounds. *Organic and Biomolecular Chemistry*, **2009**, 7, 2005-12 3.9 88
- 246 Complete switch of product selectivity in asymmetric direct aldol reaction with two different chiral organocatalysts from a common chiral source. *Journal of the American Chemical Society*, **2008**, 130, 17666-71 16.4 88
- 245 Design of chiral organocatalysts for practical asymmetric synthesis of amino acid derivatives. *Chemical Communications*, **2007**, 1487-95 5.8 86
- 244 Design of chiral bifunctional quaternary phosphonium bromide catalysts possessing an amide moiety. *Organic Letters*, **2013**, 15, 3350-3 6.2 84
- 243 Highly enantioselective michael addition of silyl nitronates to alpha,beta-unsaturated aldehydes catalyzed by designer chiral ammonium bifluorides: efficient access to optically active gamma-nitro aldehydes and their enol silyl ethers. *Journal of the American Chemical Society*, **2003**, 125, 9022-3 16.4 84
- 242 Efficient organocatalytic cross-aldol reaction between aliphatic aldehydes through their functional differentiation. *Journal of the American Chemical Society*, **2011**, 133, 18130-3 16.4 83
- 241 An achiral-acid-induced switch in the enantioselectivity of a chiral cis-diamine-based organocatalyst for asymmetric aldol and Mannich reactions. *Angewandte Chemie - International Edition*, **2012**, 51, 1187-90 16.4 81
- 240 (2,7-Dimethyl-1,8-biphenylenedioxy)bis(dimethylaluminum) as a Bidentate Lewis Acid: Its Reactivity and Selectivity in Organic Synthesis. *Journal of the American Chemical Society*, **1996**, 118, 11307-11308 16.4 81
- 239 Organoaluminum-catalyzed rearrangement of epoxides a facile route to the synthesis of optically active β -siloxy aldehydes. *Tetrahedron*, **1991**, 47, 6983-6998 2.4 80
- 238 The Direct C-H Difluoromethylation of Heteroarenes Based on the Photolysis of Hypervalent Iodine(III) Reagents That Contain Difluoroacetoxy Ligands. *Organic Letters*, **2017**, 19, 5126-5129 6.2 79
- 237 Catalytic asymmetric synthesis of 3,3'-diaryloxindoles as triarylmethanes with a chiral all-carbon quaternary center: phase-transfer-catalyzed S(N)Ar reaction. *Angewandte Chemie - International Edition*, **2014**, 53, 6220-3 16.4 78
- 236 Highly practical amino acid and alkaloid synthesis using designer chiral phase transfer catalysts as high-performance organocatalysts. *Chemical Record*, **2010**, 10, 254-9 6.6 77
- 235 Highly diastereo- and enantioselective Mannich reactions of synthetically flexible ketimines with secondary amine organocatalysts. *Angewandte Chemie - International Edition*, **2012**, 51, 1191-4 16.4 76
- 234 Efficient approach for the design of effective chiral quaternary phosphonium salts in asymmetric conjugate additions. *Chemical Science*, **2013**, 4, 2248 9.4 74
- 233 Fluorotetraphenylbismuth: a new reagent for efficient regioselective alpha-phenylation of carbonyl compounds. *Journal of the American Chemical Society*, **2003**, 125, 10494-5 16.4 71

232	A Chiral Electrophilic Selenium Catalyst for Highly Enantioselective Oxidative Cyclization. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5206-9	16.4	69
231	Asymmetric neutral amination of nitroolefins catalyzed by chiral bifunctional ammonium salts in water-rich biphasic solvent. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5327-30	16.4	67
230	Combinatorial design of simplified high-performance chiral phase-transfer catalysts for practical asymmetric synthesis of alpha-alkyl- and alpha,alpha-dialkyl-alpha-amino acids. <i>Chemistry - an Asian Journal</i> , 2008 , 3, 1702-14	4.5	67
229	Diastereo- and enantioselective conjugate addition of substituted nitroacetates to maleimides under base-free neutral phase-transfer conditions. <i>Chemical Communications</i> , 2011 , 47, 10557-9	5.8	66
228	Organocatalytic approach to enantioselective one-pot synthesis of pyrrolidine, hexahydropyrrolizine, and octahydroindolizine core structures. <i>Organic Letters</i> , 2009 , 11, 2027-9	6.2	66
227	Metal-free direct asymmetric aminooxylation of aldehydes catalyzed by a binaphthyl-based chiral amine. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6638-41	16.4	66
226	New, improved procedure for the synthesis of structurally diverse N-spiro C2-symmetric chiral quaternary ammonium bromides. <i>Journal of Organic Chemistry</i> , 2003 , 68, 4576-8	4.2	65
225	Fluorine-Assisted Selective Alkylation to Fluorinated Epoxides and Carbonyl Compounds: Implication of Pentacoordinate Trialkylaluminum Complexes. <i>Journal of the American Chemical Society</i> , 1997 , 119, 5754-5755	16.4	63
224	Synthesis of a biphenyl-based axially chiral amino acid as a highly efficient catalyst for the direct asymmetric aldol reaction. <i>Tetrahedron Letters</i> , 2006 , 47, 7423-7426	2	63
223	Construction of a chiral quaternary carbon center by catalytic asymmetric alkylation of 2-arylcyclohexanones under phase-transfer conditions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7134-7	16.4	61
222	Design of chiral bifunctional secondary amine catalysts for asymmetric enamine catalysis. <i>Chemical Communications</i> , 2008 , 5465-73	5.8	61
221	The direct catalytic asymmetric aldol reaction of substituted nitroacetates with aqueous formaldehyde under base-free neutral phase-transfer conditions. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 5753-5	3.9	59
220	Distinct advantage of the in situ generation of quaternary ammonium fluorides under phase-transfer conditions toward catalytic asymmetric synthesis. <i>Organic Letters</i> , 2001 , 3, 1273-6	6.2	59
219	Tetraalkylammonium Salts as Hydrogen-Bonding Catalysts. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15767-70	16.4	58
218	Direct asymmetric iodination of aldehydes using an axially chiral bifunctional amino alcohol catalyst. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3728-9	16.4	57
217	Acid-catalyzed in situ generation of less accessible or unprecedented N-Boc imines from N-Boc aminals. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5532-4	16.4	54
216	Metal-free enantioselective hydroxyamination of aldehydes with nitrosocarbonyl compounds catalyzed by an axially chiral amine. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18036-9	16.4	53
215	Site-selective oxidation of unactivated C(sp ³)-H bonds with hypervalent iodine(III) reagents. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8657-60	16.4	53

214	anti-Selective direct asymmetric Mannich reactions catalyzed by chiral pyrrolidine-based amino sulfonamides. <i>Tetrahedron</i> , 2008 , 64, 1197-1203	2.4	53
213	Organocatalytic asymmetric synthesis of propargylamines with two adjacent stereocenters: mannich-type reactions of in situ generated C-alkynyl imines with β -keto esters. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11509-12	16.4	52
212	Design of structurally rigid trans-diamine-based Tf-amide organocatalysts with a dihydroanthracene framework for asymmetric conjugate additions of heterosubstituted aldehydes to vinyl sulfones. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17074-6	16.4	52
211	Alpha-chiral acetylenes having an all-carbon quaternary center: phase transfer catalyzed enantioselective alpha alkylation of alpha-alkyl-alpha-alkynyl esters. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5014-7	16.4	52
210	Design of a binaphthyl-based axially chiral amino acid as an organocatalyst for direct asymmetric aldol reactions. <i>Chemistry - an Asian Journal</i> , 2006 , 1, 210-5	4.5	50
209	A Bulky Thiyl-Radical Catalyst for the [3+2] Cyclization of N-Tosyl Vinylaziridines and Alkenes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8081-5	16.4	49
208	Design of a C ₂ -symmetric chiral pyrrolidine-based amino sulfonamide: application to anti-selective direct asymmetric Mannich reactions. <i>Tetrahedron Letters</i> , 2006 , 47, 8467-8469	2	48
207	Highly Enantioselective Construction of Quaternary Stereocenters on β -keto Esters by Phase-Transfer Catalytic Asymmetric Alkylation and Michael Reaction. <i>Angewandte Chemie</i> , 2003 , 115, 3926-3928	3.6	48
206	Hypercoordination of Boron and Aluminum: Synthetic Utility as Chelating Lewis Acids. <i>Journal of the American Chemical Society</i> , 1998 , 120, 5327-5328	16.4	48
205	Indanol-Based Chiral Organoiodine Catalysts for Enantioselective Hydrative Dearomatization. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7200-7204	16.4	47
204	Unprecedented stereochemical control in the Claisen rearrangement of allyl vinyl ethers using organoaluminum reagents. <i>Journal of the American Chemical Society</i> , 1988 , 110, 7922-7924	16.4	47
203	Versatile In Situ Generated N-Boc-Imines: Application to Phase-Transfer-Catalyzed Asymmetric Mannich-Type Reactions. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8471-4	16.4	44
202	Phase-transfer-catalyzed asymmetric conjugate cyanation of alkylidenemalonates with KCN in the presence of a Brønsted acid additive. <i>Organic Letters</i> , 2013 , 15, 1230-3	6.2	43
201	Efficient generation of perfluoroalkyl radicals from sodium perfluoroalkanesulfonates and a hypervalent iodine(III) reagent: mild, metal-free synthesis of perfluoroalkylated organic molecules. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 6417-21	3.9	41
200	New Chiral Bis-Titanium(IV) Catalyst with Dibenzofuran Spacer for Catalytic Asymmetric Allylation of Aldehydes and Aryl Ketones. <i>Advanced Synthesis and Catalysis</i> , 2001 , 343, 57-60	5.6	40
199	[2 + 2] Photocycloadditions between the Carbon-Nitrogen Double Bonds of Imines and Carbon-Carbon Double Bonds. <i>Organic Letters</i> , 2016 , 18, 6252-6255	6.2	38
198	Asymmetric phase-transfer reactions under base-free neutral conditions. <i>Tetrahedron Letters</i> , 2014 , 55, 3833-3839	2	37
197	syn-Selective and Enantioselective Direct Cross-Aldol Reactions between Aldehydes Catalyzed by an Axially Chiral Amino Sulfonamide. <i>Angewandte Chemie</i> , 2007 , 119, 1768-1770	3.6	37

196	Combinatorial approach for the design of new, simplified chiral phase-transfer catalysts with high catalytic performance for practical asymmetric synthesis of alkyl- α -amino acids. <i>Tetrahedron Letters</i> , 2008 , 49, 2026-2030	2	36
195	Highly diastereo- and enantioselective formal conjugate addition of nitroalkanes to nitroalkenes by chiral ammonium bifluoride catalysis. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7606-8	16.4	36
194	Efficient photolytic C-H bond functionalization of alkylbenzene with hypervalent iodine(iii) reagent. <i>Chemical Communications</i> , 2016 , 52, 3758-61	5.8	35
193	Powerful amino diol catalyst for effecting the direct asymmetric conjugate addition of aldehydes to acrylates. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16068-73	16.4	34
192	A Designer Axially Chiral Amino Sulfonamide as an Efficient Organocatalyst for Direct Asymmetric Mannich Reactions of N-Boc-Protected Imines. <i>Angewandte Chemie</i> , 2009 , 121, 1870-1872	3.6	34
191	Asymmetric Synthesis of Chiral Sulfoximines via the α -Arylation of Sulfinamides. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19263-19268	16.4	34
190	Evaluation of the Efficiency of the Chiral Quaternary Ammonium Salt [Np-NAS-Br] in the Organic-Aqueous Phase-Transfer Alkylation of a Protected Glycine Derivative. <i>Advanced Synthesis and Catalysis</i> , 2002 , 344, 288-291	5.6	33
189	Alkylsilyl Peroxides as Alkylating Agents in the Copper-Catalyzed Selective Mono-N-Alkylation of Primary Amides and Arylamines. <i>Chemistry - A European Journal</i> , 2017 , 23, 9030-9033	4.8	32
188	Mechanism of Metal-Free C-H Activation of Branched Aldehydes and Acylation of Alkenes Using Hypervalent Iodine Compound: A Theoretical Study. <i>Journal of Organic Chemistry</i> , 2015 , 80, 9264-71	4.2	32
187	A base-free neutral phase-transfer reaction system. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 1586-93	4.5	32
186	Diastereoselective Radical Hydroacylation of Alkylidenemalonates with Aliphatic Aldehydes Initiated by Photolysis of Hypervalent Iodine(III) Reagents. <i>Chemistry - A European Journal</i> , 2016 , 22, 6552-5	4.8	32
185	Conjugate Allylation to α -Unsaturated Aldehydes with the New Chemzyme p-F-ATPH. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 1183-1185		31
184	Effects of Aromatic Substituents on Binaphthyl-Based Chiral Spiro-Type Ammonium Salts in Asymmetric Phase-Transfer Reactions. <i>Advanced Synthesis and Catalysis</i> , 2007 , 349, 556-560	5.6	31
183	Direct asymmetric aminoxylation reaction catalyzed by a binaphthyl-based chiral amino sulfonamide with high catalytic performance. <i>Tetrahedron Letters</i> , 2008 , 49, 5369-5371	2	31
182	Stereoselective terminal functionalization of small peptides for catalytic asymmetric synthesis of unnatural peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 5824-9	11.5	31
181	Chiral Tertiary Sulfonium Salts as Effective Catalysts for Asymmetric Base-Free Neutral Phase-Transfer Reactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4819-4823	16.4	30
180	Practical approach for asymmetric hydroxyamination of aldehydes with in situ generated nitrosocarbonyl compounds: application to one-pot synthesis of chiral allylamines. <i>Organic Letters</i> , 2014 , 16, 1530-2	6.2	30
179	Highly Diastereo- and Enantioselective Mannich Reactions of Synthetically Flexible Ketimines with Secondary Amine Organocatalysts. <i>Angewandte Chemie</i> , 2012 , 124, 1217-1220	3.6	30

- 178 Development of Synthetic Transformations by Control of Acid-Catalyzed Reactions of Diazocarbonyl Compounds. *Bulletin of the Chemical Society of Japan*, **2013**, 86, 1217-1230 5.1 30
- 177 Practical asymmetric synthesis of both erythro and threo aldols: unusual effect of silyl groups. *Journal of the American Chemical Society*, **1991**, 113, 5449-5450 16.4 30
- 176 Asymmetric Neutral Amination of Nitroolefins Catalyzed by Chiral Bifunctional Ammonium Salts in Water-Rich Biphasic Solvent. *Angewandte Chemie*, **2011**, 123, 5439-5442 3.6 29
- 175 Practical asymmetric synthesis of both erythro and threo aldols based on the MABR-Promoted selective rearrangement of erythro and threo epoxy silyl ethers: unusual effect of silyl substituents. *Tetrahedron*, **1992**, 48, 3749-3762 2.4 29
- 174 Asymmetric Synthesis of Chiral Sulfoximines through the S-Alkylation of Sulfinamides. *Angewandte Chemie - International Edition*, **2019**, 58, 17661-17665 16.4 28
- 173 Effect of Brønsted acid co-catalyst in asymmetric conjugate addition of 3-aryloxindoles to maleimide under base-free phase-transfer conditions. *Tetrahedron*, **2014**, 70, 7128-7132 2.4 28
- 172 Unique properties of chiral biaryl-based secondary amine catalysts for asymmetric enamine catalysis. *Chemical Science*, **2013**, 4, 907-915 9.4 28
- 171 Asymmetric Synthesis of α -Acyl- β -butyrolactones Possessing All-Carbon Quaternary Stereocenters by Phase-Transfer-Catalyzed Alkylation. *Advanced Synthesis and Catalysis*, **2006**, 348, 1539-1542 5.6 28
- 170 Catalytic asymmetric synthesis of axially chiral 2-amino-1,1?-biaryl compounds by phase-transfer-catalyzed kinetic resolution and desymmetrization. *Tetrahedron*, **2016**, 72, 5163-5171 2.4 28
- 169 Copper-Catalyzed C(sp)-C(sp) Coupling of Terminal Alkynes with Alkylsilyl Peroxides via a Radical Mechanism. *Organic Letters*, **2018**, 20, 1400-1403 6.2 27
- 168 Bowl-Shaped Tris(2,6-diphenylbenzyl)tin Hydride: A Unique Reducing Agent for Radical and Ionic Chemistry. *Angewandte Chemie - International Edition*, **2001**, 40, 411-414 16.4 26
- 167 Cu-Catalyzed Enantioselective Alkylarylation of Vinylarenes Enabled by Chiral Binaphthyl-BOX Hybrid Ligands. *Journal of the American Chemical Society*, **2020**, 142, 19017-19022 16.4 26
- 166 Alkylative kinetic resolution of vicinal diols under phase-transfer conditions: a chiral ammonium borinate catalysis. *Chemical Science*, **2018**, 9, 1231-1235 9.4 26
- 165 Design of an Axially Chiral Amino Acid with a Binaphthyl Backbone as an Organocatalyst for a Direct Asymmetric Aldol Reaction. *Angewandte Chemie*, **2005**, 117, 3115-3117 3.6 25
- 164 Catalyst-Controlled, Enantioselective, and Diastereodivergent Conjugate Addition of Aldehydes to Electron-Deficient Olefins. *Angewandte Chemie - International Edition*, **2017**, 56, 9487-9491 16.4 24
- 163 Hydrogen-bonding catalysis of sulfonium salts. *Chemical Communications*, **2016**, 53, 119-122 5.8 24
- 162 An Achiral-Acid-Induced Switch in the Enantioselectivity of a Chiral cis-Diamine-Based Organocatalyst for Asymmetric Aldol and Mannich Reactions. *Angewandte Chemie*, **2012**, 124, 1213-1216 3.6 24
- 161 Metal-Free C-H Bond Activation of Branched Aldehydes with a Hypervalent Iodine(III) Catalyst under Visible-Light Photolysis: Successful Trapping with Electron-Deficient Olefins. *Angewandte Chemie*, **2014**, 126, 11240-11244 3.6 23

160	Phase-Transfer-Catalyzed Asymmetric Synthesis of 1,1-Disubstituted Tetrahydroisoquinolines. <i>Advanced Synthesis and Catalysis</i> , 2011 , 353, 2614-2618	5.6	23
159	Direct asymmetric bromination of aldehydes catalyzed by a binaphthyl-based secondary amine: highly enantio- and diastereoselective one-pot synthesis of bromohydrins. <i>Chemical Communications</i> , 2010 , 46, 7590-2	5.8	23
158	Development of Highly Selective Organic Reactions Catalyzed by Designed Amine Organocatalysts. <i>Bulletin of the Chemical Society of Japan</i> , 2010 , 83, 1421-1438	5.1	23
157	Enantioselective Alkynylation of Isatin Derivatives Using a Chiral Phase-Transfer/Transition-Metal Hybrid Catalyst System. <i>ACS Catalysis</i> , 2019 , 9, 2395-2399	13.1	22
156	Boronic Acid-Catalyzed, Highly Enantioselective Aza-Michael Additions of Hydroxamic Acid to Quinone Imine Ketals. <i>Journal of the American Chemical Society</i> , 2015 , 137, 16016-9	16.4	22
155	Remarkable Template Effect of a Lewis Acidic Receptor in Intramolecular Radical Cyclizations. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 1181-1183		22
154	Rapid and Mild Generation of Carbon Radicals from o-(o-Iodophenyl)phenylthio Derivatives by an Anchimeric Approach. <i>Advanced Synthesis and Catalysis</i> , 2001 , 343, 166-168	5.6	22
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20	Ammonium Ions as Chiral Templates 121-150		1
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