

Keiji Maruoka

List of Publications by Year in descending order

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266
papers

16,829
citations

14614

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302
all docs

302
docs citations

302
times ranked

7790
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances of Catalytic Asymmetric 1,3-Dipolar Cycloadditions. <i>Chemical Reviews</i> , 2015, 115, 5366-5412.	23.0	824
2	Enantioselective Amino Acid Synthesis by Chiral Phase-Transfer Catalysis. <i>Chemical Reviews</i> , 2003, 103, 3013-3028.	23.0	797
3	Recent Advances in Asymmetric Phase-Transfer Catalysis. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4222-4266.	7.2	732
4	Recent Development and Application of Chiral Phase-Transfer Catalysts. <i>Chemical Reviews</i> , 2007, 107, 5656-5682.	23.0	723
5	Recent Developments in Asymmetric Phase-Transfer Reactions. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4312-4348.	7.2	616
6	Molecular Design of a C ₂ -Symmetric Chiral Phase-Transfer Catalyst for Practical Asymmetric Synthesis of $\hat{\pm}$ -Amino Acids. <i>Journal of the American Chemical Society</i> , 1999, 121, 6519-6520.	6.6	388
7	Practical Catalytic Enantioselective Synthesis of $\hat{\pm}$, $\hat{\pm}$ -Dialkyl- $\hat{\pm}$ -amino Acids by Chiral Phase-Transfer Catalysis. <i>Journal of the American Chemical Society</i> , 2000, 122, 5228-5229.	6.6	332
8	Design of N-Spiro C ₂ -Symmetric Chiral Quaternary Ammonium Bromides as Novel Chiral Phase-Transfer Catalysts: A Synthesis and Application to Practical Asymmetric Synthesis of $\hat{\pm}$ -Amino Acids. <i>Journal of the American Chemical Society</i> , 2003, 125, 5139-5151.	6.6	332
9	Phosphonium Salts as Chiral Phase-Transfer Catalysts: Asymmetric Michael and Mannich Reactions of $\hat{\pm}$ -Aryloxindoles. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4559-4561.	7.2	257
10	Enantioselective Base-Free Phase-Transfer Reaction in Water-Rich Solvent. <i>Journal of the American Chemical Society</i> , 2009, 131, 16620-16621.	6.6	218
11	Design of Axially Chiral Dicarboxylic Acid for Asymmetric Mannich Reaction of Arylaldehyde $\hat{\pm}$ -Boc Imines and Diazo Compounds. <i>Journal of the American Chemical Society</i> , 2007, 129, 10054-10055.	6.6	216
12	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, 16408-16409.	6.6	213
13	Practical Aspects of Recent Asymmetric Phase-Transfer Catalysis. <i>Organic Process Research and Development</i> , 2008, 12, 679-697.	1.3	211
14	Powerful Chiral Phase-Transfer Catalysts for the Asymmetric Synthesis of $\hat{\pm}$ -Alkyl- and $\hat{\pm}$, $\hat{\pm}$ -Dialkyl- $\hat{\pm}$ -amino Acids. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1549-1551.	7.2	209
15	Binaphthyl-Modified Quaternary Phosphonium Salts as Chiral Phase-Transfer Catalysts: Asymmetric Amination of $\hat{\pm}$ -Keto Esters. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9466-9468.	7.2	199
16	Design of New Chiral Phase-Transfer Catalysts with Dual Functions for Highly Enantioselective Epoxidation of $\hat{\pm}$, $\hat{\pm}$ -Unsaturated Ketones. <i>Journal of the American Chemical Society</i> , 2004, 126, 6844-6845.	6.6	196
17	Asymmetric Organocatalysis of Structurally Well-Defined Chiral Quaternary Ammonium Fluorides. <i>Accounts of Chemical Research</i> , 2004, 37, 526-533.	7.6	195
18	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, 2054-2055.	6.6	174

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19	An organic thiol radical catalyst for enantioselective cyclization. <i>Nature Chemistry</i> , 2014, 6, 702-705.	6.6	170
20	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, 3055-3057.	7.2	155
21	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, 9685-9694.	6.6	146
22	Highly Enantioselective Construction of Quaternary Stereocenters on α^2 -Keto Esters by Phase-Transfer Catalytic Asymmetric Alkylation and Michael Reaction. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3796-3798.	7.2	140
23	Organoaluminum-promoted Claisen rearrangement of allyl vinyl ethers. <i>Journal of the American Chemical Society</i> , 1990, 112, 316-322.	6.6	138
24	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, 1738-1740.	7.2	137
25	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, 8952-8955.	7.2	135
26	Organoaluminum-promoted rearrangement of epoxy silyl ethers to β -siloxy aldehydes. <i>Journal of the American Chemical Society</i> , 1989, 111, 6431-6432.	6.6	131
27	Direct Asymmetric Hydroxyamination Reaction Catalyzed by an Axially Chiral Secondary Amine Catalyst. <i>Journal of the American Chemical Society</i> , 2006, 128, 6046-6047.	6.6	130
28	Stereocontrolled Synthesis of Vicinal Diamines by Organocatalytic Asymmetric Mannich Reaction of <i>N</i> -Protected Aminoacetaldehydes: Formal Synthesis of (α^2)-Agelastatin A. <i>Journal of the American Chemical Society</i> , 2012, 134, 7516-7520.	6.6	128
29	A Designer Axially Chiral Amino Sulfonamide as an Efficient Organocatalyst for Direct Asymmetric Mannich Reactions of <i>N</i> -Boc-Protected Imines. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1838-1840.	7.2	124
30	Direct Asymmetric Benzoyloxylation of Aldehydes Catalyzed by 2-Tritylpyrrolidine. <i>Journal of the American Chemical Society</i> , 2009, 131, 3450-3451.	6.6	123
31	Asymmetric Induction in the Neber Rearrangement of Simple Ketoxime Sulfonates under Phase-Transfer Conditions: Experimental Evidence for the Participation of an Anionic Pathway. <i>Journal of the American Chemical Society</i> , 2002, 124, 7640-7641.	6.6	122
32	Design of bifunctional quaternary phosphonium salt catalysts for CO ₂ fixation reaction with epoxides under mild conditions. <i>Green Chemistry</i> , 2016, 18, 4611-4615.	4.6	121
33	Chiral bifunctional phase transfer catalysts for asymmetric fluorination of α^2 -keto esters. <i>Chemical Communications</i> , 2010, 46, 321-323.	2.2	119
34	Epoxy silyl ether rearrangements: a new, stereoselective approach to the synthesis of β -hydroxy carbonyl compounds. <i>Journal of the American Chemical Society</i> , 1986, 108, 3827-3829.	6.6	118
35	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. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11060-11064.	7.2	117
36	A Designer Axially Chiral Amino Sulfonamide as an Efficient Organocatalyst for Direct Asymmetric <i>anti</i> -Selective Mannich Reactions and <i>syn</i> -Selective Cross-Aldol Reactions. <i>Chemistry - A European Journal</i> , 2009, 15, 6678-6687.	1.7	114

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37	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, 5103-5105.	2.4	109
38	The Direct C-H Difluoromethylation of Heteroarenes Based on the Photolysis of Hypervalent Iodine(III) Reagents That Contain Difluoroacetoxy Ligands. <i>Organic Letters</i> , 2017, 19, 5126-5129.	2.4	106
39	Efficient Organocatalytic Cross-Aldol Reaction between Aliphatic Aldehydes through Their Functional Differentiation. <i>Journal of the American Chemical Society</i> , 2011, 133, 18130-18133.	6.6	104
40	A Chiral Electrophilic Selenium Catalyst for Highly Enantioselective Oxidative Cyclization. <i>Journal of the American Chemical Society</i> , 2016, 138, 5206-5209.	6.6	104
41	Organoaluminum-catalyzed rearrangement of epoxides a facile route to the synthesis of optically active β^2 -siloxy aldehydes. <i>Tetrahedron</i> , 1991, 47, 6983-6998.	1.0	102
42	Complete Switch of Product Selectivity in Asymmetric Direct Aldol Reaction with Two Different Chiral Organocatalysts from a Common Chiral Source. <i>Journal of the American Chemical Society</i> , 2008, 130, 17666-17667.	6.6	101
43	Organocatalyzed direct asymmetric α -halogenation of carbonyl compounds. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2005.	1.5	99
44	Catalytic Asymmetric Synthesis of 3,3-Diaryloxindoles as Triarylmethanes with a Chiral All-Carbon Quaternary Center: Phase-Transfer-Catalyzed S_NAr Reaction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6220-6223.	7.2	99
45	(2,7-Dimethyl-1,8-biphenylenedioxy)bis(dimethylaluminum) as a Bidentate Lewis Acid: Its Reactivity and Selectivity in Organic Synthesis. <i>Journal of the American Chemical Society</i> , 1996, 118, 11307-11308.	6.6	95
46	Highly Enantioselective Michael Addition of Silyl Nitronates to α,β -Unsaturated Aldehydes Catalyzed by Designer Chiral Ammonium Bifluorides: Efficient Access to Optically Active β -Nitro Aldehydes and Their Enol Silyl Ethers. <i>Journal of the American Chemical Society</i> , 2003, 125, 9022-9023.	6.6	95
47	Design of Chiral Bifunctional Quaternary Phosphonium Bromide Catalysts Possessing an Amide Moiety. <i>Organic Letters</i> , 2013, 15, 3350-3353.	2.4	95
48	Design of chiral organocatalysts for practical asymmetric synthesis of amino acid derivatives. <i>Chemical Communications</i> , 2007, , 1487-1495.	2.2	92
49	Highly practical amino acid and alkaloid synthesis using designer chiral phase transfer catalysts as high-performance organocatalysts. <i>Chemical Record</i> , 2010, 10, 254-259.	2.9	91
50	An Achiral Acid-Induced Switch in the Enantioselectivity of a Chiral <i>cis</i> -Diamine-Based Organocatalyst for Asymmetric Aldol and Mannich Reactions. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1187-1190.	7.2	91
51	Highly Diastereo- and Enantioselective Mannich Reactions of Synthetically Flexible Ketimines with Secondary Amine Organocatalysts. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1191-1194.	7.2	85
52	Fluorotetraphenylbismuth: A New Reagent for Efficient Regioselective α -Phenylation of Carbonyl Compounds. <i>Journal of the American Chemical Society</i> , 2003, 125, 10494-10495.	6.6	82
53	Efficient approach for the design of effective chiral quaternary phosphonium salts in asymmetric conjugate additions. <i>Chemical Science</i> , 2013, 4, 2248.	3.7	82
54	Tetraalkylammonium Salts as Hydrogen-Bonding Catalysts. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15767-15770.	7.2	82

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55	Combinatorial Design of Simplified High-Performance Chiral Phase-Transfer Catalysts for Practical Asymmetric Synthesis of α -Alkyl- and β -Dialkyl- α -Amino Acids. <i>Chemistry - an Asian Journal</i> , 2008, 3, 1702-1714.	1.7	81
56	Asymmetric Neutral Amination of Nitroolefins Catalyzed by Chiral Bifunctional Ammonium Salts in Water-Rich Biphasic Solvent. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5327-5330.	7.2	76
57	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.	6.6	75
58	Diastereo- and enantioselective conjugate addition of β -substituted nitroacetates to maleimides under base-free neutral phase-transfer conditions. <i>Chemical Communications</i> , 2011, 47, 10557.	2.2	75
59	Organocatalytic Approach to Enantioselective One-Pot Synthesis of Pyrrolidine, Hexahydropyrrolizine, and Octahydroindolizine Core Structures. <i>Organic Letters</i> , 2009, 11, 2027-2029.	2.4	74
60	Metal-Free Direct Asymmetric Aminooxylation of Aldehydes Catalyzed by a Binaphthyl-Based Chiral Amine. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6638-6641.	7.2	74
61	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, 4576-4578.	1.7	72
62	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, 7134-7137.	6.6	72
63	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, 1273-1276.	2.4	70
64	Design of chiral bifunctional secondary amine catalysts for asymmetric enamine catalysis. <i>Chemical Communications</i> , 2008, , 5465.	2.2	70
65	Indanol-Based Chiral Organoiodine Catalysts for Enantioselective Hydrative Dearomatization. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7200-7204.	7.2	70
66	Asymmetric Synthesis of Chiral Sulfoximines via the <i>S</i> -Arylation of Sulfinamides. <i>Journal of the American Chemical Society</i> , 2019, 141, 19263-19268.	6.6	69
67	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.	0.7	68
68	The direct catalytic asymmetric aldol reaction of β -substituted nitroacetates with aqueous formaldehyde under base-free neutral phase-transfer conditions. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5753.	1.5	66
69	Direct Asymmetric Iodination of Aldehydes Using an Axially Chiral Bifunctional Amino Alcohol Catalyst. <i>Journal of the American Chemical Society</i> , 2008, 130, 3728-3729.	6.6	65
70	A Bulky Thiyl Radical Catalyst for the [3+2] Cyclization of <i>N</i> -Tosyl Vinylaziridines and Alkenes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8081-8085.	7.2	65
71	Acid-Catalyzed In Situ Generation of Less Accessible or Unprecedented <i>N</i> -Boc Imines from <i>N</i> -Boc Amins. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5532-5534.	7.2	63
72	β -Chiral Acetylenes Having an All-Carbon Quaternary Center: Phase Transfer Catalyzed Enantioselective β -Alkylation of β -Alkyl- α -alkynyl Esters. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5014-5017.	7.2	62

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73	Design of Structurally Rigid <i>trans</i> -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, 17074-17076.	6.6	62
74	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, 18036-18039.	6.6	62
75	Hypercoordination of Boron and Aluminum: Synthetic Utility as Chelating Lewis Acids. <i>Journal of the American Chemical Society</i> , 1998, 120, 5327-5328.	6.6	61
76	Site-Selective Oxidation of Unactivated C-H Bonds with Hypervalent Iodine(III) Reagents. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8657-8660.	7.2	61
77	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.	6.6	60
78	Organocatalytic Asymmetric Synthesis of Propargylamines with Two Adjacent Stereocenters: Mannich-Type Reactions of In Situ Generated α -Alkynyl Imines with β -Keto Esters. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11509-11512.	7.2	60
79	anti-Selective direct asymmetric Mannich reactions catalyzed by chiral pyrrolidine-based amino sulfonamides. <i>Tetrahedron</i> , 2008, 64, 1197-1203.	1.0	59
80	Asymmetric Synthesis of Chiral Sulfoximines through the α -Alkylation of Sulfinamides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17661-17665.	7.2	59
81	Design of a C2-symmetric chiral pyrrolidine-based amino sulfonamide: application to anti-selective direct asymmetric Mannich reactions. <i>Tetrahedron Letters</i> , 2006, 47, 8467-8469.	0.7	54
82	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, 210-215.	1.7	53
83	[2 + 2] Photocycloadditions between the Carbon-Nitrogen Double Bonds of Imines and Carbon-Carbon Double Bonds. <i>Organic Letters</i> , 2016, 18, 6252-6255.	2.4	53
84	Versatile In Situ Generated α -Boc-Imines: Application to Phase-Transfer-Catalyzed Asymmetric Mannich-Type Reactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8471-8474.	7.2	51
85	Cu-Catalyzed Enantioselective Alkylarylation of Vinylarenes Enabled by Chiral Binaphthyl-BOX Hybrid Ligands. <i>Journal of the American Chemical Society</i> , 2020, 142, 19017-19022.	6.6	50
86	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.	2.1	49
87	Phase-Transfer-Catalyzed Asymmetric Conjugate Cyanation of Alkylidenemalonates with KCN in the Presence of a Brønsted Acid Additive. <i>Organic Letters</i> , 2013, 15, 1230-1233.	2.4	49
88	Combinatorial approach for the design of new, simplified chiral phase-transfer catalysts with high catalytic performance for practical asymmetric synthesis of β -alkyl- α -amino acids. <i>Tetrahedron Letters</i> , 2008, 49, 2026-2030.	0.7	48
89	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, 6417-6421.	1.5	46
90	Highly Diastereo- and Enantioselective Formal Conjugate Addition of Nitroalkanes to Nitroalkenes by Chiral Ammonium Bifluoride Catalysis. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7606-7608.	7.2	44

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91	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.	1.7	44
92	Efficient photolytic C-H bond functionalization of alkylbenzene with hypervalent iodine reagent. <i>Chemical Communications</i> , 2016, 52, 3758-3761.	2.2	43
93	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, 16068-16073.	6.6	41
94	Asymmetric phase-transfer reactions under base-free neutral conditions. <i>Tetrahedron Letters</i> , 2014, 55, 3833-3839.	0.7	41
95	Evaluation of the Efficiency of the Chiral Quaternary Ammonium Salt \hat{I}^2 -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.	2.1	40
96	Hydrogen-bonding catalysis of sulfonium salts. <i>Chemical Communications</i> , 2017, 53, 119-122.	2.2	40
97	Unique properties of chiral biaryl-based secondary aminocatalysts for asymmetric enamine catalysis. <i>Chemical Science</i> , 2013, 4, 907-915.	3.7	39
98	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.	7.2	39
99	Copper-Catalyzed C(sp) ³ -C(sp ³) Coupling of Terminal Alkynes with Alkylsilyl Peroxides via a Radical Mechanism. <i>Organic Letters</i> , 2018, 20, 1400-1403.	2.4	39
100	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. <i>Tetrahedron</i> , 1992, 48, 3749-3762.	1.0	38
101	Asymmetric Catalysis Special Feature Part II: 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, 5824-5829.	3.3	38
102	Direct asymmetric aminooxygenation reaction catalyzed by a binaphthyl-based chiral amino sulfonamide with high catalytic performance. <i>Tetrahedron Letters</i> , 2008, 49, 5369-5371.	0.7	38
103	Diastereoselective Radical Hydroacylation of Alkylidenemalonates with Aliphatic Aldehydes Initiated by Photolysis of Hypervalent Iodine(III) Reagents. <i>Chemistry - A European Journal</i> , 2016, 22, 6552-6555.	1.7	38
104	Organocatalytic Formal (3 + 2) Cycloaddition toward Chiral Pyrrolo[1,2- <i>a</i>]indoles via Dynamic Kinetic Resolution of Allene Intermediates. <i>Organic Letters</i> , 2020, 22, 5439-5445.	2.4	38
105	Practical asymmetric synthesis of both erythro and threo aldols: unusual effect of silyl groups. <i>Journal of the American Chemical Society</i> , 1991, 113, 5449-5450.	6.6	37
106	A Base-Free Neutral Phase-Transfer Reaction System. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1586-1593.	1.7	36
107	Catalyst-Controlled, Enantioselective, and Diastereodivergent Conjugate Addition of Aldehydes to Electron-Deficient Olefins. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9487-9491.	7.2	36
108	Bowl-Shaped Tris(2,6-diphenylbenzyl)tin Hydride: A Unique Reducing Agent for Radical and Ionic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 411-414.	7.2	34

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109	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.	2.1	34
110	Practical Approach for Asymmetric Hydroxyamination of Aldehydes with <i>in Situ</i> Generated Nitrosocarbonyl Compounds: Application to One-Pot Synthesis of Chiral Allylamines. <i>Organic Letters</i> , 2014, 16, 1530-1532.	2.4	34
111	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, 9264-9271.	1.7	34
112	Transition-Metal-Free Direct C-H Silylation of Electron-Deficient Heteroarenes with Hydrosilanes via a Radical Mechanism. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 1085-1088.	1.3	34
113	Asymmetric Synthesis of Chiral 1,4-Enynes through Organocatalytic Alkenylation of Propargyl Alcohols with Trialkenylboroxines. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8898-8901.	7.2	34
114	Conjugate Allylation to α,β -Unsaturated Aldehydes with the New Chemzyme p-F-ATPH. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1183-1185.	4.4	33
115	Asymmetric Synthesis of α -Acyl- β -butyrolactones Possessing All-Carbon Quaternary Stereocenters by Phase-Transfer-Catalyzed Alkylation. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 1539-1542.	2.1	33
116	Development of Synthetic Transformations by Control of Acid-Catalyzed Reactions of Diazocarbonyl Compounds. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 1217-1230.	2.0	33
117	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, 16016-16019.	6.6	33
118	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.	2.2	32
119	Phase-transfer catalyzed asymmetric synthesis of α,β -unsaturated β,β -disubstituted β -lactams. <i>Chemical Communications</i> , 2017, 53, 4779-4782.	2.2	32
120	Alkylative kinetic resolution of vicinal diols under phase-transfer conditions: a chiral ammonium borinate catalysis. <i>Chemical Science</i> , 2018, 9, 1231-1235.	3.7	32
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