Takashi Ooi

List of Publications by Year
in descending order

279 papers	14,991 citations	15657 65 h-index	25973 108 g-index
401 all docs	401 docs citations	401 times ranked	7452 citing authors

#	Article	IF	Citations
1	Enantioselective Amino Acid Synthesis by Chiral Phase-Transfer Catalysis. Chemical Reviews, 2003, 103, 3013-3028.	49.7	797
2	Recent Advances in Asymmetric Phase-Transfer Catalysis. Angewandte Chemie - International Edition, 2007, 46, 4222-4266.	14.3	732
3	Molecular Design of a C2-Symmetric Chiral Phase-Transfer Catalyst for Practical Asymmetric Synthesis of Î±-Amino Acids. Journal of the American Chemical Society, 1999, 121, 6519-6520.	14.3	388
4	Practical Catalytic Enantioselective Synthesis of Î±,Î±-Dialkyl-Î±-amino Acids by Chiral Phase-Transfer Catalysis. Journal of the American Chemical Society, 2000, 122, 5228-5229.	14.3	332
5	Design ofN-SpiroC2-Symmetric Chiral Quaternary Ammonium Bromides as Novel Chiral Phase-Transfer Catalysts:Â Synthesis and Application to Practical Asymmetric Synthesis of Î±-Amino Acids. Journal of the American Chemical Society, 2003, 125, 5139-5151.	14.3	332
6	Synergistic Catalysis of Ionic BrÃ¸nsted Acid and Photosensitizer for a Redox Neutral Asymmetric Î±-Coupling of N-Arylaminomethanes with Aldimines. Journal of the American Chemical Society, 2015, 137, 13768-13771.	14.3	294
7	Chiral Organic Ion Pair Catalysts Assembled Through a Hydrogen-Bonding Network. Science, 2009, 326, 120-123.	12.9	219
8	Chiral Tetraaminophosphonium Salt-Mediated Asymmetric Direct Henry Reaction. Journal of the American Chemical Society, 2007, 129, 12392-12393.	14.3	208
9	Design of New Chiral Phase-Transfer Catalysts with Dual Functions for Highly Enantioselective Epoxidation of Î±,Î²-Unsaturated Ketones. Journal of the American Chemical Society, 2004, 126, 6844-6845.	14.3	196
10	Asymmetric Organocatalysis of Structurally Well-Defined Chiral Quaternary Ammonium Fluorides. Accounts of Chemical Research, 2004, 37, 526-533.	16.3	195
11	Chiral Tetraaminophosphonium Carboxylate-Catalyzed Direct Mannich-Type Reaction. Journal of the American Chemical Society, 2008, 130, 14088-14089.	14.3	188
12	Chiral 1,2,3-Triazoliums as New Cationic Organic Catalysts with Anion-Recognition Ability: Application to Asymmetric Alkylation of Oxindoles. Journal of the American Chemical Society, 2011, 133, 1307-1309.	14.3	180
13	Ligand-enabled multiple absolute stereocontrol in metal-catalysed cycloaddition for construction of contiguous all-carbon quaternary stereocentres. Nature Chemistry, 2014, 6, 47-51.	14.4	175
14	Designer Chiral Quaternary Ammonium Bifluorides as an Efficient Catalyst for Asymmetric Nitroaldol Reaction of Silyl Nitronates with Aromatic Aldehydes. Journal of the American Chemical Society, 2003, 125, 2054-2055.	14.3	174
15	Ion-paired chiral ligands for asymmetric palladium catalysis. Nature Chemistry, 2012, 4, 473-477.	14.4	156
16	Highly Regio-, Diastereo-, and Enantioselective 1,6- and 1,8-Additions of Azlactones to Di- and Trienyl N-Acylpyrroles. Journal of the American Chemical Society, 2012, 134, 19370-19373.	14.3	155
17	Direct Asymmetric Aldol Reactions of Glycine Schiff Base with Aldehydes Catalyzed by Chiral Quaternary Ammonium Salts. Angewandte Chemie - International Edition, 2002, 41, 4542-4544.	14.3	147
18	Asymmetric Strecker Reaction of Aldimines Using Aqueous Potassium Cyanide by Phase-Transfer Catalysis of Chiral Quaternary Ammonium Salts with a Tetranaphthyl Backbone. Journal of the American Chemical Society, 2006, 128, 2548-2549.	14.3	147

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19	Development of Highly Diastereo- and Enantioselective Direct Asymmetric Aldol Reaction of a Glycinate Schiff Base with Aldehydes Catalyzed by Chiral Quaternary Ammonium Salts. Journal of the American Chemical Society, 2004, 126, 9685-9694.	14.3	146
20	Chiral Ammonium Betaines: A Bifunctional Organic Base Catalyst for Asymmetric Mannich-Type Reaction of Î±-Nitrocarboxylates. Journal of the American Chemical Society, 2008, 130, 10878-10879.	14.3	143
21	Catalytic Asymmetric Synthesis of a Nitrogen Analogue of Dialkyl Tartrate by Direct Mannich Reaction under Phase-Transfer Conditions. Organic Letters, 2004, 6, 2397-2399.	4.9	141
22	Highly Enantioselective Construction of Quaternary Stereocenters onÎ²-Keto Esters by Phase-Transfer Catalytic Asymmetric Alkylation and Michael Reaction. Angewandte Chemie - International Edition, 2003, 42, 3796-3798.	14.3	140
23	Generation of Chiral Phosphonium Dialkyl Phosphite as a Highly Reactive P-Nucleophile: Application to Asymmetric Hydrophosphonylation of Aldehydes. Journal of the American Chemical Society, 2009, 131, 3836-3837.	14.3	139
24	Conformationally Flexible, Chiral Quaternary Ammonium Bromides for Asymmetric Phase-Transfer Catalysis. Angewandte Chemie - International Edition, 2002, 41, 1551-1554.	14.3	133
25	Organoaluminum-promoted rearrangement of epoxy silyl ethers to .beta.-siloxy aldehydes. Journal of the American Chemical Society, 1989, 111, 6431-6432.	14.3	131
26	New Cytotoxic 14-Membered Macrolides from Marine-Derived Fungus Aspergillus ostianus. Organic Letters, 2008, 10, 225-228.	4.9	129
27	Importance of Chiral Phase-Transfer Catalysts with Dual Functions in Obtaining High Enantioselectivity in the Michael Reaction of Malonates and Chalcone Derivatives. Organic Letters, 2005, 7, 3195-3197.	4.9	128
28	Carbene Transfer from Triazolylidene Gold Complexes as a Potent Strategy for Inducing High Catalytic Activity. Journal of the American Chemical Society, 2013, 135, 13193-13203.	14.3	125
29	Asymmetric Induction in the Neber Rearrangement of Simple Ketoxime Sulfonates under Phase-Transfer Conditions:â€‰ Experimental Evidence for the Participation of an Anionic Pathway. Journal of the American Chemical Society, 2002, 124, 7640-7641.	14.3	122
30	Siteâ€Directed Asymmetric Quaternization of a Peptide Backbone at a Câ€Terminal Azlactone. Angewandte Chemie - International Edition, 2009, 48, 733-737.	14.3	114
31	Asymmetric Substitution at the Tetrasubstituted Chiral Carbon: Catalytic Ring-Opening Alkylation of Racemic 2,2-Disubstituted Aziridines with 3-Substituted Oxindoles. Journal of the American Chemical Society, 2013, 135, 18706-18709.	14.3	114
32	Chiral Arylaminophosphonium Barfates as a New Class of Charged BrÃ¸nsted Acid for the Enantioselective Activation of Nonionic Lewis Bases. Journal of the American Chemical Society, 2009, 131, 7242-7243.	14.3	112
33	Catalytic Asymmetric Direct Henry Reaction of Ynals: Short Syntheses of (2S,3R)â€(+)â€Xestoaminolâ€…C and (â^')â€Codonopsinines. Angewandte Chemie - International Edition, 2010, 49, 7562-7565.	14.3	110
34	Exploiting the Modularity of Ion-Paired Chiral Ligands for Palladium-Catalyzed Enantioselective Allylation of Benzofuran-2(3H)-ones. Journal of the American Chemical Society, 2013, 135, 590-593.	14.3	107
35	Baseâ€Catalyzed Direct Aldolization of Î±â€Alkylâ€Î±â€Hydroxy Trialkyl Phosphonoacetates. Angewandte Chemie - International Edition, 2012, 51, 4685-4689.	14.3	104
36	Organoaluminum-catalyzed rearrangement of epoxides a facile route to the synthesis of optically active Î²-siloxy aldehydes. Tetrahedron, 1991, 47, 6983-6998.	2.0	102

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37	A femtomolar-range suicide germination stimulant for the parasitic plant Striga hermonthica. Science, 2018, 362, 1301-1305.	12.9	101
38	Development of Highly Diastereo- and Enantioselective Direct Asymmetric Aldol Reaction of a Glycinate Schiff Base with Aldehydes Catalyzed by Chiral Quaternary Ammonium Salts.. ChemInform, 2004, 35, no.	0.0	100
39	(2,7-Dimethyl-1,8-biphenylenedioxy)bis(dimethylaluminum) as a Bidentate Lewis Acid:Â Its Reactivity and Selectivity in Organic Synthesis. Journal of the American Chemical Society, 1996, 118, 11307-11308.	14.3	95
40	Highly Efficient, Catalytic Meerwein-Ponndorf-Verley Reduction with a Novel Bidentate Aluminum Catalyst. Angewandte Chemie - International Edition, 1998, 37, 2347-2349.	14.3	95
41	Highly Enantioselective Michael Addition of Silyl Nitronates to Îł,Î²-Unsaturated Aldehydes Catalyzed by Designer Chiral Ammonium Bifluorides:â€‰ Efficient Access to Optically Active Î³-Nitro Aldehydes and Their Enol Silyl Ethers. Journal of the American Chemical Society, 2003, 125, 9022-9023.	14.3	95
42	Design of chiral organocatalysts for practical asymmetric synthesis of amino acid derivatives. Chemical Communications, 2007, , 1487-1495.	4.3	92
43	Highly Enantioselective Conjugate Addition of Nitroalkanes to Alkylidenemalonates Using Efficient Phase-Transfer Catalysis ofN-Spiro Chiral Ammonium Bromides. Journal of the American Chemical Society, 2004, 126, 11790-11791.	14.3	91
44	Catalytic Asymmetric Ring Openings of Meso and Terminal Aziridines with Halides Mediated by Chiral 1,2,3-Triazolium Silicates. Journal of the American Chemical Society, 2012, 134, 8794-8797.	14.3	88
45	Highly Stereoselective N-Terminal Functionalization of Small Peptides by Chiral Phase-Transfer Catalysis. Angewandte Chemie - International Edition, 2003, 42, 579-582.	14.3	82
46	Fluorotetraphenylbismuth:â€‰ A New Reagent for Efficient Regioselective Îą-Phenylation of Carbonyl Compounds. Journal of the American Chemical Society, 2003, 125, 10494-10495.	14.3	82
47	Cyanoviridin RR, a toxin from the cyanobacterium (blue-green alga). Tetrahedron Letters, 1987, 28, 4695-4698.	1.5	81
48	Chiral Ammonium Betaines as Ionic Nucleophilic Catalysts. Angewandte Chemie - International Edition, 2010, 49, 5567-5569.	14.3	81
49	The Modified Mosherâ€™s Method and the Sulfoximine Method. Bulletin of the Chemical Society of Japan, 2006, 79, 965-980.	3.3	80
50	Lewis acid-promoted selective rearrangement of trisubstituted epoxides to aldehydes or ketones. Tetrahedron, 1994, 50, 3663-3672.	2.0	79
51	Complete diastereodivergence in asymmetric 1,6-addition reactions enabled by minimal modification of a chiral catalyst. Nature Communications, 2017, 8, 14793.	13.1	79
52	Highly stereoselective Michael addition of azlactones to electron-deficient triple bonds under P-spiro chiral iminophosphorane catalysis: importance of protonation pathway. Chemical Science, 2013, 4, 1308.	7.7	77
53	Zr(OBut)4 As an effective promoter for the Meerweinâ€“Ponndorfâ€“Verley alkynylation and cyanation of aldehydes: development of new asymmetric cyanohydrin synthesis. Tetrahedron, 2001, 57, 867-873.	2.0	76
54	Fluorine-Assisted Selective Alkylation to Fluorinated Epoxides and Carbonyl Compounds:Â Implication of Pentacoordinate Trialkylaluminum Complexes. Journal of the American Chemical Society, 1997, 119, 5754-5755.	14.3	75

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55	Importance of Chiral Phase-Transfer Catalysts with Dual Functions in Obtaining High Enantioselectivity in the Michael Reaction of Malonates and Chalcone Derivatives.. ChemInform, 2005, 36, no.	0.0	75
56	Facile synthesis of l-Dopa tert-butyl ester by catalytic enantioselective phase-transfer alkylation. Tetrahedron Letters, 2000, 41, 8339-8342.	1.5	74
57	Organoaluminum-catalyzed new alkylation of tert-alkyl fluorides: Synthetic utility of Alî—¸F interaction. Tetrahedron Letters, 1997, 38, 5679-5682.	1.5	73
58	An efficient, catalytic procedure for epoxide rearrangement. Tetrahedron Letters, 1989, 30, 5607-5610.	1.5	72
59	New, Improved Procedure for the Synthesis of Structurally Diverse N-Spiro C2-Symmetric Chiral Quaternary Ammonium Bromides. Journal of Organic Chemistry, 2003, 68, 4576-4578.	3.4	72
60	Catalytic Asymmetric Protonation of Î±-Amino Acid-Derived Ketene Disilyl Acetals Using P-Spiro Diaminodioxaphosphonium Barfates as Chiral Proton. Journal of the American Chemical Society, 2010, 132, 12240-12242.	14.3	72
61	(2,7-Disubstituted-1,8-biphenylenedioxy)bis(dimethylaluminum) as Bidentate Organoaluminum Lewis Acids:â€‰ Elucidation and Synthetic Utility of the Double Electrophilic Activation Phenomenon. Journal of the American Chemical Society, 2004, 126, 1150-1160.	14.3	71
62	Distinct Advantage of the in Situ Generation of Quaternary Ammonium Fluorides under Phase-Transfer Conditions toward Catalytic Asymmetric Synthesis. Organic Letters, 2001, 3, 1273-1276.	4.9	70
63	Catalytic Asymmetric Rearrangement of Î±,Î±-Disubstituted Î±-Siloxy Aldehydes to Optically Active Acyloins Using Axially Chiral Organoaluminum Lewis Acids. Journal of the American Chemical Society, 2007, 129, 2410-2411.	14.3	70
64	Enantioselective reductive multicomponent coupling reactions between isatins and aldehydes. Chemical Science, 2015, 6, 6086-6090.	7.7	69
65	Flexible synthesis, structural determination, and synthetic application of a new C₁-symmetric chiral ammonium betaine. Chemical Communications, 2010, 46, 300-302.	4.3	68
66	Dramatic Rate Enhancement of Asymmetric Phase-Transfer-Catalyzed Alkylations. Angewandte Chemie - International Edition, 2005, 44, 625-628.	14.3	67
67	Palladium-Catalyzed Asymmetric [3 + 2] Cycloaddition of 5-Vinyloxazolidinones with Imines Using Chiral Ammonium-Phosphine Hybrid Ligand. ACS Catalysis, 2014, 4, 4304-4306.	11.5	67
68	Production at the Curie Level of No-Carrier-Added 6-¹⁸F-Fluoro-l-Dopa. Journal of Nuclear Medicine, 2013, 54, 1154-1161.	5.1	66
69	Highly Enantioselective Phase-Transfer-Catalyzed Alkylation of Protected Î±-Amino Acid Amides toward Practical Asymmetric Synthesis of Vicinal Diamines, Î±-Amino Ketones, and Î±-Amino Alcohols. Journal of the American Chemical Society, 2005, 127, 5073-5083.	14.3	65
70	Independence from the Sequence of Single-Electron Transfer of Photoredox Process in Redox-Neutral Asymmetric Bond-Forming Reaction. Journal of Organic Chemistry, 2016, 81, 6953-6958.	3.4	63
71	Catalytic, high-speed tishchenko reaction using (2,7-dimethyl-1,8-biphenylenedioxy)bis(diisopropoxyaluminum) as a powerful bidentate catalyst. Tetrahedron Letters, 1999, 40, 7695-7698.	1.5	62
72	Advantage of in situ generation of N-arylsulfonyl imines from Î±-amide sulfones in the phase-transfer-catalyzed asymmetric Strecker reaction. Tetrahedron Letters, 2007, 48, 1337-1340.	1.5	62

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73	Catalytic asymmetric hydrophosphonylation of ynones. Chemical Science, 2010, 1, 488.	7.7	62
74	Hypercoordination of Boron and Aluminum:Â Synthetic Utility as Chelating Lewis Acids. Journal of the American Chemical Society, 1998, 120, 5327-5328.	14.3	61
75	Aliphatic sulfates released from Daphnia induce morphological defense of phytoplankton: isolation and synthesis of kairomones. Tetrahedron Letters, 2005, 46, 4765-4767.	1.5	61
76	Practical Oppenauer (OPP) Oxidation of Alcohols with a Modified Aluminum Catalyst. Organic Letters, 2002, 4, 2669-2672.	4.9	60
77	A Modular Strategy for the Direct Catalytic Asymmetric Î±-Amination of Carbonyl Compounds. CheM, 2016, 1, 802-810.	12.2	60
78	Chiral ionic BrÃ¸nsted acidâ€“achiral BrÃ¸nsted base synergistic catalysis for asymmetric sulfa-Michael addition to nitroolefins. Chemical Science, 2012, 3, 3161.	7.7	59
79	Construction of Enantiomerically Enriched Tertiary Î±-Hydroxycarboxylic Acid Derivatives by Phase-Transfer-Catalyzed Asymmetric Alkylation of Diaryloxazolidin-2,4-diones. Angewandte Chemie - International Edition, 2006, 45, 3839-3842.	14.3	58
80	Photoredox ketone catalysis for the direct Câ€“H imidation and acyloxylation of arenes. Chemical Science, 2017, 8, 5622-5627.	7.7	58
81	Practical Approach to the Meerweinâ€“Ponndorfâ€“Verley Reduction of Carbonyl Substrates with New Aluminum Catalysts This work was partially supported by a Grant-in-Aid for Scientific Research from the Ministry of Education, Culture, Sports, Science and Technology, Japan.. Angewandte Chemie - International Edition, 2001, 40, 3610.	14.3	57
82	Catalytic Asymmetric Oxidation of N-Sulfonyl Imines with Hydrogen Peroxideâ€“Trichloroacetonitrile System. Journal of the American Chemical Society, 2013, 135, 8161-8164.	14.3	57
83	Urea as a Redox-Active Directing Group under Asymmetric Photocatalysis of Iridium-Chiral Borate Ion Pairs. Journal of the American Chemical Society, 2020, 142, 19462-19467.	14.3	57
84	HighlyEâ€Selective and Enantioselective Michael Addition to Electronâ€Deficient Internal Alkynes Under Chiral Iminophosphorane Catalysis. Angewandte Chemie - International Edition, 2015, 54, 9954-9957.	14.3	55
85	Unique property of copper(I) chloride as a radical initiator as well as a Lewis acid: Application to CuCl-catalyzed aldol reaction of Î±,Î²-unsaturated ketones with Bu3SnH. Tetrahedron Letters, 1999, 40, 2133-2136.	1.5	54
86	Concise, Catalytic Asymmetric Synthesis of Tetrahydroisoquinoline- and Dihydroisoquinoline-3-carboxylic Acid Derivatives. Synthesis, 2001, 2001, 1716-1718.	2.3	54
87	Zwitterionic 1,2,3-Triazolium Amidate as a Catalyst for Photoinduced Hydrogen-Atom Transfer Radical Alkylation. ACS Catalysis, 2020, 10, 2627-2632.	11.5	53
88	Exploiting single-electron transfer in Lewis pairs for catalytic bond-forming reactions. Chemical Science, 2020, 11, 4305-4311.	7.7	52
89	Direct allylic Câ€“H alkylation of enol silyl ethers enabled by photoredoxâ€“BrÃ¸nsted base hybrid catalysis. Nature Communications, 2019, 10, 2706.	13.1	51
90	Synthesis and enantioseparation of chiral Au₁₃ nanoclusters protected by bis-N-heterocyclic carbene ligands. Chemical Science, 2021, 12, 10436-10440.	7.7	51

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91	Asymmetric Diels-Alder Reaction of Unsymmetrical Maleates. A Chemical Access to Chiral, Unsymmetrical cis-Cyclohexene-1,2-dicarboxylates. Journal of the American Chemical Society, 1994, 116, 6153-6158.	14.3	50
92	Highly stereoselective catalytic conjugate addition of acyl anion equivalent to nitroolefins. Chemical Science, 2012, 3, 842-845.	7.7	49
93	Esterification of carboxylic acids catalyzed by in situ generated tetraalkylammonium fluorides. Tetrahedron Letters, 2001, 42, 9245-9248.	1.5	48
94	Structure Revision of Aspergillides A and B, Cytotoxic 14-Membered Macrolides from Aspergillus ostianus, by X-ray Crystallography. Chemistry Letters, 2009, 38, 384-384.	1.4	48
95	Unprecedented stereochemical control in the organoaluminum-promoted intramolecular ene reactions of .delta.,.epsilon.-unsaturated aldehydes. Journal of the American Chemical Society, 1990, 112, 9011-9012.	14.3	46
96	Practical Asymmetric Synthesis of Vicinal Diamines through the Catalytic Highly Enantioselective Alkylation of Glycine Amide Derivatives. Angewandte Chemie - International Edition, 2003, 42, 5868-5870.	14.3	46
97	Highly enantioselective alkylation of glycine methyl and ethyl ester derivatives under phase-transfer conditions: its synthetic advantage. Tetrahedron Letters, 2004, 45, 1675-1678.	1.5	46
98	Title is missing!. Angewandte Chemie, 2002, 114, 4724-4726.	2.0	45
99	Highly Diastereo- and Enantioselective Formal Conjugate Addition of Nitroalkanes to Nitroalkenes by Chiral Ammonium Bifluoride Catalysis. Angewandte Chemie - International Edition, 2006, 45, 7606-7608.	14.3	44
100	Performance of C1-symmetric chiral ammonium betaines as catalysts for the enantioselective Mannich-type reaction of Î±-nitrocarboxylates. Tetrahedron: Asymmetry, 2010, 21, 1189-1190.	1.8	44
101	Ionic Nucleophilic Catalysis of Chiral Ammonium Betaines for Highly Stereoselective Aldol Reaction from Oxindole-Derived Vinylic Carbonates. Journal of the American Chemical Society, 2012, 134, 6972-6975.	14.3	44
102	In situ generation of ion-paired chiral ligands: rapid identification of the optimal ligand for palladium-catalyzed asymmetric allylation. Chemical Science, 2014, 5, 3645-3650.	7.7	44
103	Catalystâ€Enabled Siteâ€Divergent Stereoselective Michael Reactions: Overriding Intrinsic Reactivity of Enynyl Carbonyl Acceptors. Angewandte Chemie - International Edition, 2018, 57, 4732-4736.	14.3	44
104	Migratory aptitude of alkyl substituents in the MABR-promoted epoxide rearrangement. Tetrahedron, 1992, 48, 3303-3312.	2.0	43
105	Catalytic Meerwein-Ponndorf-Verley (MPV) and Oppenauer (OPP) Reactions: Remarkable Acceleration of the Hydride Transfer by Powerful Bidentate Aluminum Alkoxides. Synthesis, 2002, 2002, 0279.	2.3	42
106	Asymmetric Skeletal Rearrangement of Symmetrically Î±,Î±-Disubstituted Î±-Amino Aldehydes:Â A New Entry to Optically Active Î±-Hydroxy Ketones. Journal of the American Chemical Society, 2003, 125, 3220-3221.	14.3	42
107	Development of P-Spiro Chiral Aminophosphonium Salts as a New Class of Versatile Organic Molecular Catalyst. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2010, 68, 1185-1194.	0.1	42
108	The Synthetic Utility of the Hypercoordination of Boron and Aluminum. Chemistry - A European Journal, 1999, 5, 829-833.	3.5	41

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109	Acridinium Betaine as a Single-Electron-Transfer Catalyst: Design and Application to Dimerization of Oxindoles. ACS Catalysis, 2017, 7, 2765-2769.	11.5	41
110	Evaluation of the Efficiency of the Chiral Quaternary Ammonium Salt Î²-Np-NAS-Br in the Organic-Aqueous Phase-Transfer Alkylation of a Protected Glycine Derivative. Advanced Synthesis and Catalysis, 2002, 344, 288-291.	4.5	40
111	Determination of the absolute configuration of compounds bearing chiral quaternary carbon centers using the crystalline sponge method. Chemical Science, 2017, 8, 5132-5136.	7.7	40
112	Inserting Nitrogen: An Effective Concept To Create Nonplanar and Stimuli-Responsive Perylene Bisimide Analogues. Journal of the American Chemical Society, 2019, 141, 19807-19816.	14.3	40
113	Bidentate organoaluminum Lewis acid for selective activation of carbonyl over acetal functionality: Chemoselective functionalization. Tetrahedron Letters, 1997, 38, 7403-7406.	1.5	38
114	Asymmetric Catalysis Special Feature Part II: Stereoselective terminal functionalization of small peptides for catalytic asymmetric synthesis of unnatural peptides. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5824-5829.	7.3	38
115	Practical Stereoselective Synthesis of Î²-Branched Î±-Amino Acids through Efficient Kinetic Resolution in the Phase-Transfer-Catalyzed Asymmetric Alkylations. Organic Letters, 2007, 9, 3945-3948.	4.9	38
116	First Meerweinâ^'Ponndorfâ^'Verley Alkynylation:â€‰ Nonorganometallic Way for Carbonyl Alkylations. Journal of the American Chemical Society, 1998, 120, 10790-10791.	14.3	37
117	Asymmetric Synthesis of Functionalized Aza-Cyclic Amino Acids with Quaternary Stereocenters by a Phase-Transfer-Catalyzed Alkylation Strategy. Organic Letters, 2005, 7, 191-193.	4.9	37
118	Ligand-controlled E/Z selectivity and enantioselectivity in palladium-catalyzed allylation of benzofuranones with 1,2-disubstituted allylic carbonates. Chemical Communications, 2014, 50, 4554-4557.	4.3	37
119	Unprecedented Encapsulation of Carbonyl Guest with Designer Lewis Acid Receptor. Angewandte Chemie - International Edition, 1998, 37, 3039-3041.	14.3	36
120	Pentacoordinate Organoaluminum Chemistry:â€‰ Catalytic Efficiency of Me3Al in the Epoxide Cleavage with Alkynyllithiums. Journal of the American Chemical Society, 1999, 121, 3328-3333.	14.3	36
121	Asymmetric Michael addition of silyl nitronates to cyclic Î±,Î²-unsaturated ketones catalyzed by chiral quaternary ammonium bifluorides: isolation and selective functionalization of enol silyl ethers of optically active Î³-nitro ketones. Tetrahedron Letters, 2006, 47, 145-148.	1.5	36
122	Catalytic asymmetric Mannich-type reactions of Î±-cyano Î±-sulfonyl carbanions. Chemical Communications, 2012, 48, 7913.	4.3	36
123	Advantage of Anaerobic Conditions in the Highly Enantioselective Synthesis of Î±,Î±-Dialkyl-Î±-Amino Acids by Chiral Phase-Transfer Catalysis. Synlett, 2001, 2001, 1185-1187.	1.8	34
124	N-Spiro Chiral Quaternary Ammonium Bromide Catalyzed Diastereo- and Enantioselective Conjugate Addition of Nitroalkanes to Cyclic Î±,Î²-Unsaturated Ketones under Phase-Transfer Conditions. Organic Letters, 2005, 7, 5143-5146.	4.9	34
125	Conjugate Allylation toÎ±,Î²-Unsaturated Aldehydes with the New Chemzymep-F-ATPH. Angewandte Chemie International Edition in English, 1997, 36, 1183-1185.	4.4	33
126	Conformationally Flexible, Chiral Quaternary Ammonium Bromides for Asymmetric Phase-Transfer Catalysis. Angewandte Chemie, 2002, 114, 1621-1624.	2.0	33

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127	Isopropoxyaluminum 1,1â€²-biphenyl-2-oxy-2â€²-perfluorooctanesulfonamide as a catalyst for Tishchenko reaction. Tetrahedron Letters, 2003, 44, 3191-3193.	1.5	33
128	Asymmetric Synthesis of Î±-Acyl-Î³-butyrolactones Possessing All-Carbon Quaternary Stereocenters by Phase-Transfer-Catalyzed Alkylation. Advanced Synthesis and Catalysis, 2006, 348, 1539-1542.	4.5	33
129	Catalytic Asymmetric Direct Henry Reaction of Ynals: Short Syntheses of (2S,3R)â€(+)â€Xestoaminolâ€...C and (â^')â€Codonopsinines. Angewandte Chemie, 2010, 122, 7724-7727.	2.9	33
130	Enantioselective formal Î±-allylation of nitroalkanes through a chiral iminophosphorane-catalyzed Michael reactionâ€“Juliaâ€“Kocienski olefination sequence. Chemical Communications, 2014, 50, 3491-3493.	4.3	33
131	Nitroolefins as a Nucleophilic Component for Highly Stereoselective Aza Henry Reaction under the Catalysis of Chiral Ammonium Betaines. Chemistry - A European Journal, 2012, 18, 8306-8309.	3.5	32
132	Catalytic asymmetric Payne oxidation under the catalysis of P-spiro chiral triaminoiminophosphorane: application to the synthesis of N-sulfonyl oxaziridines. Tetrahedron, 2014, 70, 1691-1701.	2.0	32
133	Simultaneous functional group manipulation in the Meerwein-Ponndorf-Verley reduction process catalyzed by bidentate aluminum reagent. Tetrahedron Letters, 1999, 40, 2137-2138.	1.5	31
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