

Bin Tan

List of Publications by Year in descending order

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108
papers

11,140
citations

26630

56
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30087

103
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178
all docs

178
docs citations

178
times ranked

5120
citing authors

#	ARTICLE	IF	CITATIONS
1	Organocatalytic Asymmetric Assembly Reactions: Synthesis of Spirooxindoles via Organocascade Strategies. <i>ACS Catalysis</i> , 2014, 4, 743-762.	11.2	735
2	Construction of Axially Chiral Compounds via Asymmetric Organocatalysis. <i>Accounts of Chemical Research</i> , 2018, 51, 534-547.	15.6	586
3	Recent Advances in Catalytic Asymmetric Construction of Atropisomers. <i>Chemical Reviews</i> , 2021, 121, 4805-4902.	47.7	499
4	Construction of bispirooxindoles containing three quaternary stereocentres in a cascade using a single multifunctional organocatalyst. <i>Nature Chemistry</i> , 2011, 3, 473-477.	13.6	448
5	Core-Structure-Motivated Design of a Phosphine-Catalyzed [3 + 2] Cycloaddition Reaction: Enantioselective Syntheses of Spirocyclopenteneoxindoles. <i>Journal of the American Chemical Society</i> , 2011, 133, 4672-4675.	13.7	409
6	Highly Efficient Hydrogen-Bonding Catalysis of the Diels-Alder Reaction of 3-Vinylindoles and Methyleneindolinones Provides Carbazolespirooxindole Skeletons. <i>Journal of the American Chemical Society</i> , 2011, 133, 12354-12357.	13.7	346
7	Organocatalytic asymmetric arylation of indoles enabled by azo groups. <i>Nature Chemistry</i> , 2018, 10, 58-64.	13.6	296
8	Highly Atroposelective Synthesis of Arylpyrroles by Catalytic Asymmetric Paal-Knorr Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 1714-1717.	13.7	255
9	A Dual-Catalytic Strategy To Direct Asymmetric Radical Aminotrifluoromethylation of Alkenes. <i>Journal of the American Chemical Society</i> , 2016, 138, 9357-9360.	13.7	250
10	Atroposelective Synthesis of Axially Chiral Biaryldiols via Organocatalytic Arylation of 2-Naphthols. <i>Journal of the American Chemical Society</i> , 2015, 137, 15062-15065.	13.7	242
11	Organocatalytic Amidation and Esterification of Aldehydes with Activating Reagents by a Cross-Coupling Strategy. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12538-12541.	13.8	179
12	Metal-Free Direct Intramolecular Carbotrifluoromethylation of Alkenes to Functionalized Trifluoromethyl Azaheterocycles. <i>Organic Letters</i> , 2014, 16, 504-507.	4.6	168
13	Enantioselective C-H Bond Functionalization Triggered by Radical Trifluoromethylation of Unactivated Alkene. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11890-11894.	13.8	167
14	Chiral Brønsted Acid-Catalyzed Enantioselective α -Hydroxylation of β -Dicarbonyl Compounds. <i>Journal of the American Chemical Society</i> , 2009, 131, 4562-4563.	13.7	166
15	Radical aryl migration enables diversity-oriented synthesis of structurally diverse medium/macro- or bridged-rings. <i>Nature Communications</i> , 2016, 7, 13852.	12.8	155
16	Organocatalytic Asymmetric Tandem Michael-Henry Reactions: A Highly Stereoselective Synthesis of Multifunctionalized Cyclohexanes with Two Quaternary Stereocenters. <i>Organic Letters</i> , 2008, 10, 2437-2440.	4.6	153
17	Asymmetric phosphoric acid-catalyzed four-component Ugi reaction. <i>Science</i> , 2018, 361, .	12.6	150
18	Organocatalytic Asymmetric α -Aminoxylation/Aza-Michael Reactions for the Synthesis of Functionalized Tetrahydro-1,2-dioxazines. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 10187-10191.	13.8	145

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19	Rational design, enantioselective synthesis and catalytic applications of axially chiral EBINOLs. <i>Nature Catalysis</i> , 2019, 2, 504-513.	34.4	145
20	In Situ Generation of Electrophilic Trifluoromethylthio Reagents for Enantioselective Trifluoromethylthiolation of Oxindoles. <i>Organic Letters</i> , 2014, 16, 2192-2195.	4.6	143
21	Chiral Phosphoric Acid Catalyzed Atroposelective C ^α H Amination of Arenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6775-6779.	13.8	139
22	Assembly of Spirooxindole Derivatives Containing Four Consecutive Stereocenters via Organocatalytic Michael-Henry Cascade Reactions. <i>Organic Letters</i> , 2012, 14, 1834-1837.	4.6	135
23	Advances in asymmetric organocatalysis over the last 10 years. <i>Nature Communications</i> , 2020, 11, 3786.	12.8	135
24	Control of Four Stereocenters in an Organocatalytic Domino Double Michael Reaction: Efficient Synthesis of Multisubstituted Cyclopentanes. <i>Organic Letters</i> , 2008, 10, 3425-3428.	4.6	132
25	Organocatalytic atroposelective synthesis of axially chiral styrenes. <i>Nature Communications</i> , 2017, 8, 15238.	12.8	128
26	Organocatalytic Atroposelective Arylation of 2-Naphthylamines as a Practical Approach to Axially Chiral Biaryl Amino Alcohols. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16308-16312.	13.8	127
27	Facile Domino Access to Chiral Bicyclo[3.2.1]octanes and Discovery of a New Catalytic Activation Mode. <i>Organic Letters</i> , 2010, 12, 2682-2685.	4.6	123
28	Discovery and enantiocontrol of axially chiral urazoles via organocatalytic tyrosine click reaction. <i>Nature Communications</i> , 2016, 7, 10677.	12.8	121
29	Brønsted acid-catalysed enantioselective construction of axially chiral arylquinazolinones. <i>Nature Communications</i> , 2017, 8, 15489.	12.8	115
30	Highly Enantioselective Kinetic Resolution of Axially Chiral BINAM Derivatives Catalyzed by a Brønsted Acid. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3684-3687.	13.8	114
31	Phosphine-Catalyzed Remote C ^β -H Functionalization of Amines Triggered by Trifluoromethylation of Alkenes: One-Pot Synthesis of Bistrifluoromethylated Enamides and Oxazoles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4041-4045.	13.8	114
32	A Highly Diastereo- and Enantioselective Synthesis of Multisubstituted Cyclopentanes with Four Chiral Carbons by the Organocatalytic Domino Michael-Henry Reaction. <i>Organic Letters</i> , 2008, 10, 3489-3492.	4.6	112
33	Asymmetric construction of atropisomeric biaryls via a redox neutral cross-coupling strategy. <i>Nature Catalysis</i> , 2019, 2, 314-323.	34.4	112
34	Rational Design of Organocatalyst: Highly Stereoselective Michael Addition of Cyclic Ketones to Nitroolefins. <i>Organic Letters</i> , 2009, 11, 1927-1930.	4.6	111
35	Chiral Phosphoric Acid Catalyzed Asymmetric Synthesis of Axially Chiral Compounds. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1787-1796.	4.9	111
36	Core Structure-Based Design of Organocatalytic [3+2] Cycloaddition Reactions: Highly Efficient and Stereocontrolled Syntheses of 3,3-Diethylpyrrolidonyl Spirooxindoles. <i>Chemistry - A European Journal</i> , 2012, 18, 63-67.	3.3	104

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37	Efficient Copper-Catalyzed Direct Intramolecular Aminotrifluoromethylation of Unactivated Alkenes with Diverse Nitrogen-Based Nucleophiles. <i>Chemistry - A European Journal</i> , 2014, 20, 1332-1340.	3.3	103
38	Direct Access to β -Trifluoromethyl Enones via Efficient Copper-Catalyzed Trifluoromethylation of Meyer-Schuster Rearrangement. <i>Organic Letters</i> , 2014, 16, 1000-1003.	4.6	98
39	Alkene Trifluoromethylation-Initiated Remote β -Azidation of Carbonyl Compounds toward Trifluoromethyl β -Lactam and Spirobenzofuranone-Lactam. <i>ACS Catalysis</i> , 2015, 5, 2826-2831.	11.2	96
40	Organocatalytic atroposelective construction of axially chiral arylquinones. <i>Nature Communications</i> , 2019, 10, 4268.	12.8	92
41	Phosphoric acid-catalyzed atroposelective construction of axially chiral arylpyrroles. <i>Nature Communications</i> , 2019, 10, 566.	12.8	89
42	Asymmetric Construction of Spirooxindoles by Organocatalytic Multicomponent Reactions Using Diazoindoles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9409-9413.	13.8	88
43	Phosphoric Acid-Catalyzed Asymmetric Synthesis of SPINOL Derivatives. <i>Journal of the American Chemical Society</i> , 2016, 138, 16561-16566.	13.7	88
44	Organocatalytic Enantioselective Synthesis of Atropisomeric Arylquinones: Platform Molecules for Diversity-Oriented Synthesis of Biaryldiols. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11374-11378.	13.8	85
45	Construction of Tropane Derivatives by the Organocatalytic Asymmetric Dearomatization of Isoquinolines. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11834-11839.	13.8	84
46	Asymmetric Synthesis of Axially Chiral Isoquinolones: Nickel-Catalyzed Denitrogenative Transannulation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9528-9532.	13.8	83
47	DFT-Guided Phosphoric-Acid-Catalyzed Atroposelective Arene Functionalization of Nitrosonaphthalene. <i>CheM</i> , 2020, 6, 2046-2059.	11.7	83
48	Metal-Free Direct 1,6- and 1,2-Difunctionalization Triggered by Radical Trifluoromethylation of Alkenes. <i>Organic Letters</i> , 2015, 17, 1589-1592.	4.6	77
49	A Highly Stereoselective Organocatalytic Tandem Aminooxylation/Aza-Michael Reaction for the Synthesis of Tetrahydro-1,2-Oxazines. <i>Organic Letters</i> , 2008, 10, 4585-4588.	4.6	76
50	Asymmetric Construction of Axially Chiral β -Arylpyrroles by Chirality Transfer of Atropisomeric Alkenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13443-13447.	13.8	75
51	Phosphoric Acid-Catalyzed Asymmetric Classic Passerini Reaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 14039-14042.	13.7	74
52	Organic base-catalysed solvent-tuned chemoselective carbotrifluoromethylation and oxytrifluoromethylation of unactivated alkenes. <i>Chemical Communications</i> , 2016, 52, 9052-9055.	4.1	73
53	An Unexpected N-Heterocyclic Carbene-Catalyzed Annulation of Enals and Nitroso Compounds. <i>Journal of Organic Chemistry</i> , 2009, 74, 1744-1746.	3.2	72
54	Brønsted Acid Catalyzed Asymmetric Hydroamination of Alkenes: Synthesis of Pyrrolidines Bearing a Tetrasubstituted Carbon Stereocenter. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7847-7851.	13.8	66

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55	Catalytic Asymmetric Formal [4 + 1] Annulation Leading to Optically Active <i>cis</i> -Isoxazoline <i>N</i> -Oxides. <i>Organic Letters</i> , 2010, 12, 5402-5405.	4.6	59
56	Recyclable organocatalysis: highly enantioselective Michael addition of 1,3-diaryl-1,3-propanedione to nitroolefins. <i>Chemical Communications</i> , 2009, , 779-781.	4.1	58
57	Organocatalytic Atroposelective Arylation of 2-Naphthylamines as a Practical Approach to Axially Chiral Biaryl Amino Alcohols. <i>Angewandte Chemie</i> , 2017, 129, 16526-16530.	2.0	58
58	Michael Reaction Inspired Atroposelective Construction of Axially Chiral Biaryls. <i>Journal of the American Chemical Society</i> , 2020, 142, 7322-7327.	13.7	57
59	Rationally Designed Amide Donors for Organocatalytic Asymmetric Michael Reactions. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5381-5385.	13.8	56
60	Design and Atroposelective Construction of IAN analogues by Organocatalytic Asymmetric Heteroannulation of Alkynes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23077-23082.	13.8	55
61	Copper-Catalyzed Aminotrifluoromethylation of Unactivated Alkenes with (TMS)CF ₃ : Construction of Trifluoromethylated Azaheterocycles. <i>Journal of Organic Chemistry</i> , 2014, 79, 7084-7092.	3.2	54
62	Organocatalyst-controlled site-selective arene C-H functionalization. <i>Nature Chemistry</i> , 2021, 13, 982-991.	13.6	52
63	Unusual Domino Michael/Aldol Condensation Reactions Employing Oximes as Selective Nucleophiles: Synthesis of <i>N</i> -Hydroxypyrrroles. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 758-761.	13.8	51
64	Chiral Phosphoric Acid-Catalyzed Remote Control of Axial Chirality at Boron-Carbon Bond. <i>Journal of the American Chemical Society</i> , 2021, 143, 12924-12929.	13.7	51
65	Chiral Brønsted Acid Catalyzed Enantioselective Addition of $\hat{\pm}$ -Isocyanoacetamides to Aldehydes. <i>Organic Letters</i> , 2010, 12, 2414-2417.	4.6	50
66	Atroposelective Construction of Arylindoles by Chiral Phosphoric Acid-Catalyzed Cross-Coupling of Indoles and Quinones. <i>Organic Letters</i> , 2019, 21, 6000-6004.	4.6	49
67	Chiral Phosphoric Acid Creates Promising Opportunities for Enantioselective Photoredox Catalysis. <i>Chinese Journal of Chemistry</i> , 2020, 38, 213-214.	4.9	48
68	Water-More Than Just a Green Solvent: A Stereoselective One-Pot Access to All Chiral Tetrahydronaphthalenes in Aqueous Media. <i>Chemistry - A European Journal</i> , 2010, 16, 3842-3848.	3.3	47
69	Asymmetric Construction of Spirocyclopentenebenzofuranone Core Structures via Highly Selective Phosphine-Catalyzed [3 + 2] Cycloaddition Reactions. <i>Organic Letters</i> , 2013, 15, 2958-2961.	4.6	47
70	Asymmetric Pnictogen-Bonding Catalysis: Transfer Hydrogenation by a Chiral Antimony(V) Cation/Anion Pair. <i>Journal of the American Chemical Society</i> , 2021, 143, 6382-6387.	13.7	46
71	Axially chiral alkenes: Atroposelective synthesis and applications. , 2022, 1, 100009.		46
72	Diastereoselective HOTf-catalyzed three-component one-pot 1,3-dipolar cycloaddition of $\hat{\pm}$ -diazo ester, nitrosobenzene and electron-deficient alkene. <i>Chemical Communications</i> , 2010, 46, 2504.	4.1	43

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73	Organocatalysis as a Safe Practical Method for the Stereospecific Dibromination of Unsaturated Compounds. <i>Organic Letters</i> , 2012, 14, 1858-1861.	4.6	43
74	Remote Control of Axial Chirality: Synthesis of Spirooxindole-Urazoles via Desymmetrization of ATAD. <i>Organic Letters</i> , 2018, 20, 6022-6026.	4.6	43
75	Nitrosobenzene-Enabled Chiral Phosphoric Acid Catalyzed Enantioselective Construction of Atropisomeric <i>N</i> -Arylbenzimidazoles. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24888-24893.	13.8	43
76	Amide Groups Switch Selectivity: C-H Trifluoromethylation of β,β -Unsaturated Amides and Subsequent Asymmetric Transformation. <i>Organic Letters</i> , 2014, 16, 6032-6035.	4.6	42
77	Organocatalytic enantioselective transformations involving quinone derivatives as reaction partners. <i>Tetrahedron Letters</i> , 2018, 59, 473-486.	1.4	40
78	Urea group-directed organocatalytic asymmetric versatile dihalogenation of alkenes and alkynes. <i>Nature Catalysis</i> , 2021, 4, 692-702.	34.4	40
79	Trifluoromethylation-Initiated Remote Cross-Coupling of Carbonyl Compounds to Form Carbon-Heteroatom/Carbon Bonds. <i>Chemistry - A European Journal</i> , 2015, 21, 6718-6722.	3.3	39
80	Counteranion-Controlled Unprecedented Diastereo- and Enantioselective Tandem Formal Povarov Reaction for Construction of Bioactive Octahydro-Dipyrroloquinolines. <i>ACS Catalysis</i> , 2016, 6, 6182-6190.	11.2	39
81	Chiral Phosphoric Acid Catalyzed Atroposelective C-H Amination of Arenes. <i>Angewandte Chemie</i> , 2020, 132, 6841-6845.	2.0	39
82	Enantioselective three-component Ugi reaction catalyzed by chiral phosphoric acid. <i>Science China Chemistry</i> , 2020, 63, 47-54.	8.2	32
83	Metal-free oxidative cross-coupling enabled practical synthesis of atropisomeric QUINOL and its derivatives. <i>Nature Communications</i> , 2021, 12, 2384.	12.8	32
84	Highly stereoselective synthesis of indanes with four stereogenic centers via sequential Michael reaction and [3+2] cycloaddition. <i>Chemical Communications</i> , 2010, 46, 7611.	4.1	30
85	Asymmetric Construction of Axially Chiral Arylpyrroles by Chirality Transfer of Atropisomeric Alkenes. <i>Angewandte Chemie</i> , 2019, 131, 13577-13581.	2.0	30
86	Highly enantioselective l-thiaproline catalyzed β -aminoxylation of aldehydes in aqueous media. <i>Green Chemistry</i> , 2009, 11, 543.	9.0	29
87	Core-Structure-Motivated Design of Iminium-Enolate Organocascade Reactions: Enantioselective Syntheses of 5,6-Dihydroindolizines. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9261-9265.	13.8	23
88	Organocatalytic Enantioselective Synthesis of Atropisomeric Aryl-p-Quinones: Platform Molecules for Diversity-Oriented Synthesis of Biarylidiols. <i>Angewandte Chemie</i> , 2020, 132, 11470-11474.	2.0	23
89	l-Prolinol as a highly enantioselective catalyst for Michael addition of cyclohexanone to nitroolefins. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3915-3918.	2.2	22
90	Gold-catalyzed tandem synthesis of bioactive spiro-dipyrroloquinolines and its application in the one-step synthesis of incargranine B aglycone and seneciobipyrrolidine (I). <i>Organic Chemistry Frontiers</i> , 2016, 3, 324-329.	4.5	21

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91	Construction of Tropane Derivatives by the Organocatalytic Asymmetric Dearomatization of Isoquinolines. <i>Angewandte Chemie</i> , 2016, 128, 12013-12018.	2.0	19
92	Brønsted Acid Catalyzed Asymmetric Hydroamination of Alkenes: Synthesis of Pyrrolidines Bearing a Tetrasubstituted Carbon Stereocenter. <i>Angewandte Chemie</i> , 2015, 127, 7958-7962.	2.0	18
93	Design and Atroposelective Construction of IAN analogues by Organocatalytic Asymmetric Heteroannulation of Alkynes. <i>Angewandte Chemie</i> , 2020, 132, 23277-23282.	2.0	16
94	Synthesis of structurally diversified BINOLs and NOBINs via palladium-catalyzed C-H arylation with diazoquinones. <i>Science China Chemistry</i> , 2021, 64, 1515-1521.	8.2	15
95	Stereoselective Construction of Complex Spirooxindoles via Bisthiourea Catalyzed Three-Component Reactions. <i>Chinese Journal of Chemistry</i> , 2018, 36, 1182-1186.	4.9	14
96	Direct Construction of NOBINs via Domino Arylation and Sigmatropic Rearrangement Reactions. <i>Chinese Journal of Chemistry</i> , 2020, 38, 1503-1514.	4.9	14
97	Electrochemical phenothiazination of naphthylamines and its application in photocatalysis. <i>Chemical Communications</i> , 2021, 57, 8512-8515.	4.1	10
98	Protecting-group directed stereospecific organocatalytic [3+2] cycloadditions: a facile access to chiral spirocyclic oxindoles. <i>Arkivoc</i> , 2014, 2014, 124-142.	0.5	9
99	Nitrosobenzene-Enabled Chiral Phosphoric Acid Catalyzed Enantioselective Construction of Atropisomeric Arylbenzimidazoles. <i>Angewandte Chemie</i> , 0, , .	2.0	9
100	Platinum-Catalyzed Tandem Cyclization Reaction to Multiply Substituted Indolines under Microwave-Assisted Conditions. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 569-575.	4.3	7
101	Organocatalytic double arylation of 3-isothiocyanato oxindoles: Stereocontrolled synthesis of complex spirooxindoles. <i>Tetrahedron</i> , 2019, 75, 1689-1696.	1.9	7
102	Asymmetric synthesis of binaphthyls through photocatalytic cross-coupling and organocatalytic kinetic resolution. <i>Science China Chemistry</i> , 2022, 65, 1142-1148.	8.2	6
103	Organocatalytic Asymmetric α -Aminoxylation/Aza-Michael Reactions for the Synthesis of Functionalized Tetrahydro-1,2-oxazines. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 10013-10013.	13.8	4
104	Copper-Catalyzed Synthesis of Axially Chiral Biaryls with Diaryliodonium Salts as Arylation Reagents. <i>Molecules</i> , 2021, 26, 3223.	3.8	4
105	Facile synthesis of <i>N</i> -aryl phenothiazines and phenoxazines via Brønsted acid catalyzed C-H amination of arenes. <i>Chemical Communications</i> , 2022, 58, 1613-1616.	4.1	3
106	Direct arylation of N-heterocycles enabled by photoredox catalysis. <i>Chemical Communications</i> , 2022, 58, 4392-4395.	4.1	2
107	R ₄ ctitelbild: Phosphine-Catalyzed Remote β -C-H Functionalization of Amines Triggered by Trifluoromethylation of Alkenes: One-Pot Synthesis of Bistrifluoromethylated Enamides and Oxazoles (<i>Angew. Chem.</i> 13/2015). <i>Angewandte Chemie</i> , 2015, 127, 4198-4198.	2.0	0
108	Catalytic Asymmetric Borylation to Construct Axially Chiral Arylborons. <i>Chinese Journal of Organic Chemistry</i> , 2021, 41, 3742.	1.3	0