

# Catalytic Enantioselective Desymmetrization Reactions Stereocenters

Chemical Reviews

116, 7330-7396

DOI: [10.1021/acs.chemrev.6b00094](https://doi.org/10.1021/acs.chemrev.6b00094)

Citation Report

#	ARTICLE	IF	CITATIONS
2	Silver-Promoted Cascade Reaction of 4-Hydroxycoumarins with $\alpha$ -Keto Acids under Microwave Irradiation: One-Step Construction of Quaternary Stereocenters. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 4907-4915.	1.2	11
3	Tao-Phos-controlled desymmetrization of succinimide-based bisalkynes via asymmetric copper-catalyzed Huisgen alkyne-azide click cycloaddition: substrate scope and mechanism. <i>RSC Advances</i> , 2016, 6, 58698-58708.	1.7	31
4	Diastereodivergent Construction of Bicyclic $\beta$ -Lactones via Enantioselective Ketone Hydroacylation. <i>Journal of the American Chemical Society</i> , 2016, 138, 12013-12016.	6.6	78
5	Enantioselective Synthesis of Di- and Tri-Arylated All-Carbon Quaternary Stereocenters via Copper-Catalyzed Allylic Arylations with Organolithium Compounds. <i>ACS Catalysis</i> , 2016, 6, 6591-6595.	5.5	22
7	Enantioselective construction of branched 1,3-dienyl substituted quaternary carbon stereocenters by asymmetric allenyl Claisen rearrangement. <i>Chemical Communications</i> , 2016, 52, 11963-11966.	2.2	13
8	Catalytic Enantioselective Desymmetrization of Norbornenoquinones via C(sp <sup>2</sup> )-H Alkylation. <i>Organic Letters</i> , 2016, 18, 6160-6163.	2.4	29
9	Organocatalytic, Enantioselective Synthesis of Cyclohexadienone Containing Hindered Spirocyclic Ethers through an Oxidative Dearomatization/Oxa-Michael Addition Sequence. <i>Angewandte Chemie</i> , 2016, 128, 15339-15343.	1.6	13
10	Catalytic Enantioselective Synthesis of $N$ -C Axially Chiral Mebroqualone and Its Derivatives through Reductive Asymmetric Desymmetrization. <i>Organic Letters</i> , 2016, 18, 5700-5703.	2.4	55
11	Enantioselective Formation of All-Carbon Quaternary Centers via C-H Functionalization of Methanol: Iridium-Catalyzed Diene Hydrohydroxymethylation. <i>Journal of the American Chemical Society</i> , 2016, 138, 14210-14213.	6.6	126
12	Organocatalyzed [4+2] Annulation of All-Carbon Tetrasubstituted Alkenes with Allenates: Synthesis of Highly Functionalized 2-H and 4-H Pyran Derivatives. <i>ChemistrySelect</i> , 2016, 1, 5414-5420.	0.7	10
13	Organocatalytic, Enantioselective Synthesis of Cyclohexadienone Containing Hindered Spirocyclic Ethers through an Oxidative Dearomatization/Oxa-Michael Addition Sequence. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15115-15119.	7.2	42
15	Enantioselective Synthesis of Chiral Oxygen-Containing Heterocycles Using Copper-Catalyzed Aryl C-O Coupling Reactions via Asymmetric Desymmetrization. <i>Journal of Organic Chemistry</i> , 2017, 82, 1458-1463.	1.7	16
16	Lactols in an asymmetric aldol-desymmetrization sequence: access to tetrahydro-4H-furo[2,3-b]pyran-2-one and tetrahydro-4H-furo[2,3-b]furan-2-one derivatives. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 1407-1417.	1.5	14
17	A Highly Active Polymer-Supported Catalyst for Asymmetric Robinson Annulations in Continuous Flow. <i>ACS Catalysis</i> , 2017, 7, 1383-1391.	5.5	59
18	Development of the Regiodivergent Asymmetric Prenylation of 3-Substituted Oxindoles. <i>Chemistry - A European Journal</i> , 2017, 23, 4405-4414.	1.7	29
19	$N$ -Heterocyclic Carbene-Catalyzed Intramolecular Nucleophilic Substitution: Enantioselective Construction of All-Carbon Quaternary Stereocenters. <i>Chemistry - A European Journal</i> , 2017, 23, 2783-2787.	1.7	20
20	Asymmetric Total Syntheses of Kopsia Indole Alkaloids. <i>Angewandte Chemie</i> , 2017, 129, 3757-3761.	1.6	28
21	Asymmetric Total Syntheses of Kopsia Indole Alkaloids. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3703-3707.	7.2	91

#	ARTICLE	IF	CITATIONS
22	Local Desymmetrization through Diastereotopic Group Selection: An Enabling Strategy for Natural Product Synthesis. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 1381-1390.	1.2	23
23	Asymmetric Arylative Dearomatization of 1,2-Naphthols Catalyzed by a Chiral Phosphoric Acid. <i>Chemistry - A European Journal</i> , 2017, 23, 5381-5385.	1.7	44
24	Synthesis of spiro-oxindoles through Pd-catalyzed remote C-H alkylation using $\alpha$ -diazocarbonyl compounds. <i>Chemical Communications</i> , 2017, 53, 2842-2845.	2.2	94
25	Copper(I)-Catalyzed Asymmetric Desymmetrization through Inverse Electron Demand Diels-Alder Reaction: Efficient Access to Tetrahydropyridazines Bearing a Unique Chiral Silane Moiety. <i>Chemistry - A European Journal</i> , 2017, 23, 4995-4999.	1.7	28
26	Asymmetric Dearomatization Diels-Alder Reaction for the Construction of Hydrodibenzo[ <i>b</i> , <i>d</i> ]furan Frameworks with Tetrasubstituted Stereogenic Centers. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 1018-1027.	2.1	41
27	Selective construction of quaternary stereocentres in radical cyclisation cascades triggered by electron-transfer reduction of amide-type carbonyls. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4159-4164.	1.5	11
28	Enantio- and Stereoselective Construction of Atisane Scaffold via Organocatalytic Intramolecular Michael Reaction and Diels-Alder Reaction. <i>Organic Letters</i> , 2017, 19, 2390-2393.	2.4	8
29	Organocatalytic Enantioselective Synthesis of Dihydropyranoindole Derivatives Bearing Trifluoromethylated All-Carbon-Substituted Stereocenters. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 2557-2563.	2.1	20
30	Mizoroki-Heck Cyclizations of Amide Derivatives for the Introduction of Quaternary Centers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6567-6571.	7.2	86
31	Mizoroki-Heck Cyclizations of Amide Derivatives for the Introduction of Quaternary Centers. <i>Angewandte Chemie</i> , 2017, 129, 6667-6671.	1.6	21
32	Asymmetric Synthesis of Trisubstituted Tetrahydrothiophenes via in Situ Generated Chiral Fluoride-Catalyzed Cascade Sulfa-Michael/Aldol Reaction of 1,4-Dithiane-2,5-diol and $\alpha,\beta$ -Unsaturated Ketones. <i>Organic Letters</i> , 2017, 19, 2298-2301.	2.4	42
33	Asymmetric Synthesis of Carbocyclic Propellanes. <i>Organic Letters</i> , 2017, 19, 2310-2313.	2.4	39
34	Palladium-Catalyzed Enantioselective C(sp <sup>2</sup> )-H Imidoylation by Desymmetrization. <i>ACS Catalysis</i> , 2017, 7, 3832-3836.	5.5	54
35	Asymmetric Synthesis of Cyclopentane-Substituted Oxindoles via Organocatalytic Desymmetrization of Cyclopentane-1,3-diones. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 1867-1871.	2.1	19
36	Enantioselective synthesis of tetrahydrocyclopenta[b]indole bearing a chiral quaternary carbon center via Pd-catalyzed SPRIX-catalyzed C-H activation. <i>Chemical Communications</i> , 2017, 53, 6887-6890.	2.2	22
37	Enantioselective Construction of All-Carbon Quaternary Stereogenic Centers by Using Phosphine Catalysis. <i>Asian Journal of Organic Chemistry</i> , 2017, 6, 1130-1145.	1.3	97
38	Tunable Diastereoselective Desymmetrization of Cyclohexadienones Triggered by Copper-Catalyzed Three-Component Coupling Reaction. <i>Journal of Organic Chemistry</i> , 2017, 82, 6786-6794.	1.7	25
39	Enantioselective Formation of CF <sub>3</sub> -Bearing All-Carbon Quaternary Stereocenters via C-H Functionalization of Methanol: Iridium Catalyzed Allene Hydrohydroxymethylation. <i>Journal of the American Chemical Society</i> , 2017, 139, 8114-8117.	6.6	101

#	ARTICLE	IF	CITATIONS
40	Palladium-Catalyzed Asymmetric Synthesis of Silicon-Stereogenic 5,10-Dihydrophenazasilines via Enantioselective 1,5-Palladium Migration. <i>Angewandte Chemie</i> , 2017, 129, 9339-9344.	1.6	31
41	Palladium-Catalyzed Asymmetric Synthesis of Silicon-Stereogenic 5,10-Dihydrophenazasilines via Enantioselective 1,5-Palladium Migration. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9211-9216.	7.2	80
42	Phosphine-Catalyzed Asymmetric Intermolecular Cross-Vinyllogous Rauhut-Currier Reactions of Vinyl Ketones with <i>para</i> -Quinone Methides. <i>ACS Catalysis</i> , 2017, 7, 2805-2809.	5.5	144
43	Cinchona Alkaloid Derived Primary Amine Catalyzed Intramolecular Desymmetrizing Aldolization Reaction of Diacetyloxindoles. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 2871-2877.	1.2	5
44	Brønsted acid-catalyzed, enantioselective synthesis of 1,4-dihydroquinoline-3-carboxylates via in situ generated ortho-quinone methide imines. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 3706-3716.	1.5	35
45	Asymmetric Cascade Assembly of 1,2-Diaza-1,3-dienes and $\alpha,\beta$ -Unsaturated Aldehydes via Dienamine Activation. <i>Organic Letters</i> , 2017, 19, 1874-1877.	2.4	37
46	Construction of 3,4-Dihydrocoumarin Derivatives with Adjacent Quaternary and Tertiary Stereocenters: Organocatalytic Asymmetric Michael Addition of 2-Oxochroman-3-carboxylate Esters to <i>trans</i> -Nitroolefins. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 163-167.	2.1	12
47	Direct enantioselective C-acylation for the construction of a quaternary stereocenter catalyzed by a chiral bicyclic imidazole. <i>Chemical Communications</i> , 2017, 53, 1381-1384.	2.2	29
48	Enantioselective Medium-Ring Lactone Synthesis through an NHC-Catalyzed Intramolecular Desymmetrization of Prochiral 1,3-Diols. <i>ACS Catalysis</i> , 2017, 7, 7647-7652.	5.5	43
49	Asymmetric cross-coupling of alkyl, alkenyl and (hetero)aryl nucleophiles with racemic allyl halides. <i>Chemical Communications</i> , 2017, 53, 12499-12511.	2.2	29
50	Copper-Catalyzed Synthesis of $\beta$ -Amino Acids Featuring Quaternary Stereocenters. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15035-15038.	7.2	67
51	Activation Mode and Origin of Selectivity in Chiral Phosphoric Acid-Catalyzed Oxacycle Formation by Intramolecular Oxetane Desymmetrizations. <i>ACS Catalysis</i> , 2017, 7, 7332-7339.	5.5	45
52	Diastereoselective Desymmetrization of Prochiral Cyclopentenediones via Cycloaddition Reaction with <i>N</i> -Phenacylbenzothiazolium Bromides. <i>Journal of Organic Chemistry</i> , 2017, 82, 12763-12770.	1.7	17
53	Asymmetric Synthesis of Chiral Cyclopentanes Bearing an All-Carbon Quaternary Stereocenter by Zirconium-Catalyzed Double Carboalumination. <i>Angewandte Chemie</i> , 2017, 129, 11660-11663.	1.6	1
54	Transition-Metal-Free [3+2] Cycloaddition of Dehydroaminophosphonates and <i>N</i> -Tosylhydrazones: Access to Aminocyclopropanephosphonates with Adjacent Quaternary-Tetrasubstituted Carbon Centers. <i>Journal of Organic Chemistry</i> , 2017, 82, 12746-12756.	1.7	12
55	Forging Fluorine-Containing Quaternary Stereocenters by a Light-Driven Organocatalytic Aldol Desymmetrization Process. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11875-11879.	7.2	60
56	Construction of Quaternary Stereogenic Centers in the Total Synthesis of Natural Products. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14356-14358.	7.2	30
57	Acyclic Quaternary Carbon Stereocenters via Enantioselective Transition Metal Catalysis. <i>Chemical Reviews</i> , 2017, 117, 12564-12580.	23.0	348

#	ARTICLE	IF	CITATIONS
58	Desymmetrization of Cyclopentenediones <i>via</i> Organocatalytic Cross-Dehydrogenative Coupling. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 3729-3734.	2.1	22
59	FeCl <sub>3</sub> -Catalyzed Allylation Reactions onto 3-Hydroxy-2-oxindoles: Formal Total Syntheses of Bis-cyclotryptamine Alkaloids, (±)-Chimonanthine, and (±)-Folicanthine. <i>Journal of Organic Chemistry</i> , 2017, 82, 8548-8567.	1.7	32
60	Asymmetric Synthesis of Chiral Cyclopentanes Bearing an All-Carbon Quaternary Stereocenter by Zirconium-Catalyzed Double Carboalumination. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11502-11505.	7.2	10
61	Forging Fluorine-Containing Quaternary Stereocenters by a Light-Driven Organocatalytic Aldol Desymmetrization Process. <i>Angewandte Chemie</i> , 2017, 129, 12037-12041.	1.6	21
62	Chiral Magnesium(II) Complex-Catalyzed Enantioselective Desymmetrization of <i>meso</i> -Aziridines with Pyrazoles. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 3532-3537.	2.1	20
63	Organo-Catalyzed Asymmetric Michael-Hemiketalization-Oxa-Pictet-Spengler Cyclization for Bridged and Spiro Heterocyclic Skeletons: Oxocarbenium Ion as a Key Intermediate. <i>Organic Letters</i> , 2017, 19, 6626-6629.	2.4	34
64	Totalsynthese von Naturstoffen und ein kreativer Weg zum Aufbau von quartären Stereozentren. <i>Angewandte Chemie</i> , 2017, 129, 14548-14550.	1.6	6
65	Copper-Catalyzed Synthesis of <sup>13</sup> C-Amino Acids Featuring Quaternary Stereocenters. <i>Angewandte Chemie</i> , 2017, 129, 15231-15234.	1.6	21
66	Diastereo- and enantioselective [3+3] cycloaddition of spirocyclopropyl oxindoles using both aldonitrone and ketonitrone. <i>Nature Communications</i> , 2017, 8, 1619.	5.8	84
67	Auto-Tandem Catalysis: Pd <sup>II</sup> -Catalyzed Dehydrogenation/Oxidative Heck Reaction of Cyclopentane-1,3-diones. <i>Chemistry - A European Journal</i> , 2017, 23, 18282-18288.	1.7	20
68	Enantioselective Palladium-Catalyzed Intramolecular $\beta$ -Arylative Desymmetrization of 1,3-Diketones. <i>Journal of the American Chemical Society</i> , 2017, 139, 16486-16489.	6.6	69
69	Two-step synthesis of chiral fused tricyclic scaffolds from phenols via desymmetrization on nickel. <i>Nature Communications</i> , 2017, 8, 32.	5.8	64
70	Enantioselective Conjugate Addition of 2-Acetyl Azaarenes to $\beta,\beta$ -Disubstituted Nitroalkene for the Construction of All-Carbon Quaternary Stereocenters. <i>Journal of Organic Chemistry</i> , 2017, 82, 7353-7362.	1.7	18
71	Phosphazene-catalyzed desymmetrization of cyclohexadienones by dithiane addition. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 762-767.	1.3	2
72	Lewis Acid Catalyzed Enantioselective Desymmetrization of Donor-Acceptor <i>meso</i> -Diaminocyclopropanes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5120-5123.	7.2	64
73	Recent topics in enantioselective acyl transfer reactions with dialkylaminopyridine-based nucleophilic catalysts. <i>Tetrahedron Letters</i> , 2018, 59, 1787-1803.	0.7	43
74	Total synthesis of natural products using a desymmetrization strategy. <i>Tetrahedron Letters</i> , 2018, 59, 1343-1347.	0.7	13
75	Bioinspired Synthesis of Chiral 3,4-Dihydropyranones via S-to-O Acyl-Transfer Reactions. <i>Organic Letters</i> , 2018, 20, 1584-1588.	2.4	24

#	ARTICLE	IF	CITATIONS
76	Redox-Neutral Access to Isoquinolinones via Rhodium(III)-Catalyzed Annulations of <i>O</i> -Pivaloyl Oximes with Ketenes. <i>Organic Letters</i> , 2018, 20, 2698-2701.	2.4	27
77	Lewis Acid Catalyzed Enantioselective Desymmetrization of Donor- <i>meso</i> -Diaminocyclopropanes. <i>Angewandte Chemie</i> , 2018, 130, 5214-5217.	1.6	28
78	Highly Enantioselective, Base-Free Synthesis of $\beta$ -Quaternary Succinimides through Catalytic Asymmetric Allylic Alkylation. <i>Chemistry - A European Journal</i> , 2018, 24, 8076-8080.	1.7	19
79	Synthesis and Desymmetrization of <i>meso</i> Tricyclic Systems Derived from Benzene Oxide. <i>Journal of Organic Chemistry</i> , 2018, 83, 4859-4866.	1.7	8
80	Synthesis of Benzofuranones via Malonates Desymmetrization: Yield Increase by the Portionwise Addition of Quinones. <i>Chemistry - A European Journal</i> , 2018, 24, 6941-6945.	1.7	12
81	$\beta$ -Alkylation of Chiral Sulfinimines for Constructing Quaternary Chiral Carbons by Introducing Removable Directing Groups. <i>Organic Letters</i> , 2018, 20, 1350-1354.	2.4	10
82	Construction of Isoxazolidinones with a Tetrasubstituted Carbon Center: Enantioselective Conjugate Addition Mediated by Phase-Transfer Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 1499-1509.	2.1	25
83	Biomimetic Desymmetrization of a Carboxylic Acid. <i>Journal of the American Chemical Society</i> , 2018, 140, 1998-2001.	6.6	37
84	Selenide-catalyzed enantioselective synthesis of trifluoromethylthiolated tetrahydronaphthalenes by merging desymmetrization and trifluoromethylthiolation. <i>Nature Communications</i> , 2018, 9, 527.	5.8	108
85	A Domino Process toward Functionally Dense Quaternary Carbons through Pd-Catalyzed Decarboxylative C(sp <sup>3</sup> )-C(sp <sup>3</sup> ) Bond Formation. <i>Journal of the American Chemical Society</i> , 2018, 140, 3981-3987.	6.6	113
86	Highly Enantioselective Oxidation of Spirocyclic Hydrocarbons by Bioinspired Manganese Catalysts and Hydrogen Peroxide. <i>ACS Catalysis</i> , 2018, 8, 2479-2487.	5.5	75
87	Construction of Axially Chiral Compounds via Asymmetric Organocatalysis. <i>Accounts of Chemical Research</i> , 2018, 51, 534-547.	7.6	586
88	N-Heterocyclic carbene promoted enantioselective desymmetrization reaction of diarylalkane-bisphenols. <i>Organic Chemistry Frontiers</i> , 2018, 5, 1101-1107.	2.3	11
89	Enantioselective Desymmetrization of Cyclobutanones Enabled by Synergistic Palladium/Enamine Catalysis. <i>Angewandte Chemie</i> , 2018, 130, 2737-2741.	1.6	22
90	Asymmetric Conjugate Addition of $\beta$ -Cyanoketones to Enones Using Diaminomethylenemalononitrile Organocatalyst. <i>Journal of Organic Chemistry</i> , 2018, 83, 2402-2408.	1.7	22
91	Rhodium-Catalyzed Highly Regio- and Enantioselective Reductive Cyclization of Alkyne-Tethered Cyclohexadienones. <i>ACS Catalysis</i> , 2018, 8, 1440-1447.	5.5	64
92	Enantioselective Desymmetrization of Cyclobutanones Enabled by Synergistic Palladium/Enamine Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2707-2711.	7.2	55
93	Catalytic Desymmetrizing Dehydrogenation of $\alpha$ -Substituted Cyclohexanones through Enamine Oxidation. <i>Angewandte Chemie</i> , 2018, 130, 2275-2280.	1.6	7



#	ARTICLE	IF	CITATIONS
94	Catalytic Desymmetrizing Dehydrogenation of 4-Substituted Cyclohexanones through Enamine Oxidation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2253-2258.	7.2	36
95	Palladium-Catalyzed Enantioselective Desymmetrizing Aza-Wacker Reaction: Development and Application to the Total Synthesis of (±)-Mesembrane and (+)-Crinine. <i>Angewandte Chemie</i> , 2018, 130, 2013-2017.	1.6	8
96	Palladium-Catalyzed Enantioselective Desymmetrizing Aza-Wacker Reaction: Development and Application to the Total Synthesis of (±)-Mesembrane and (+)-Crinine. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1995-1999.	7.2	44
97	Total Synthesis of Mesembrine – The Construction of Quaternary Stereocenters by Gold-Catalyzed Diyne Desymmetrization. <i>Israel Journal of Chemistry</i> , 2018, 58, 568-577.	1.0	8
98	Generation of all carbon quaternary stereocenters at the C-3 carbon of piperidinones and pyrrolidinones and its application in natural product total synthesis. <i>Tetrahedron</i> , 2018, 74, 4903-4915.	1.0	29
99	Amine-Promoted anti-Markovnikov Addition of 1,3-Dicarbonyl Compounds with Terminal Alkynes under Rhenium Catalysis. <i>ACS Catalysis</i> , 2018, 8, 5454-5459.	5.5	24
100	Arynes and Cyclic Alkynes as Synthetic Building Blocks for Stereodefined Quaternary Centers. <i>Journal of the American Chemical Society</i> , 2018, 140, 7605-7610.	6.6	40
101	Organocatalytic Strategies to Stereoselectively Trap Photochemically Generated Hydroxyquinodimethanes. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2884-2891.	1.2	31
102	Copper(I)-Catalyzed Asymmetric [3+2] Cycloaddition of $\pm$ -Substituted Iminoesters with $\pm$ -Trifluoromethyl $\pm$ -Unsaturated Esters. <i>Chinese Journal of Chemistry</i> , 2018, 36, 421-429.	2.6	6
103	Silver-Catalyzed Asymmetric Desymmetrization of Cyclopentenediones via [3 + 2] Cycloaddition with $\pm$ -Substituted Isocynoacetates. <i>Organic Letters</i> , 2018, 20, 2249-2252.	2.4	21
104	Catalytic Enantioselective Birch-Heck Sequence for the Synthesis of Tricyclic Structures with All-Carbon Quaternary Stereocenters. <i>Organic Letters</i> , 2018, 20, 1740-1743.	2.4	10
105	Access to Quaternary Stereogenic Centers via Rhodium(III)-Catalyzed Annulations between 2-Phenylindoles and Ketenes. <i>Organic Letters</i> , 2018, 20, 1957-1960.	2.4	24
106	Catalytic Asymmetric Huisgen Alkyne-Azide Cycloaddition of Bisalkynes by Copper(I) Nanoparticles. <i>ChemCatChem</i> , 2018, 10, 280-286.	1.8	36
107	Rhodium-catalyzed asymmetric synthesis of 1,1-disubstituted 1,3-dihydrobenzo[c]furans from prochiral triynes and internal alkynes. <i>Catalysis Communications</i> , 2018, 107, 78-81.	1.6	8
108	The chemistry of the carbon-transition metal double and triple bond: Annual survey covering the year 2016. <i>Coordination Chemistry Reviews</i> , 2018, 356, 1-114.	9.5	14
109	Pd-Catalyzed Enantioselective Ring Opening/Cross-Coupling and Cyclopropanation of Cyclobutanones. <i>Angewandte Chemie</i> , 2018, 131, 907.	1.6	47
110	Visible Light-Induced Radical Cyclization of Tertiary Bromides with Isonitriles To Construct Trifluoromethylated Quaternary Carbon Center. <i>Journal of Organic Chemistry</i> , 2018, 83, 14588-14599.	1.7	11
111	Catalytic Enantioselective Synthesis of 3,4-Polyfused Oxindoles with Quaternary All-Carbon Stereocenters: A Rh-Catalyzed C-C Activation Approach. <i>Organic Letters</i> , 2018, 20, 7689-7693.	2.4	30

#	ARTICLE	IF	CITATIONS
112	Lewis Acid-Catalyzed Malonate Addition onto 3-Hydroxy-2-oxindoles: Mechanistic Consideration and Synthetic Approaches to the Pyrroloindoline Alkaloids. <i>Journal of Organic Chemistry</i> , 2018, 83, 12664-12682.	1.7	12
113	A Highly Enantio- and Diastereoselective Synthesis of Spirocyclic Dihydroquinolones via Domino Michael Addition-Lactamization of ortho-Quinone Methide Imines. <i>Chemistry - A European Journal</i> , 2018, 24, 18082-18088.	1.7	21
114	Total Synthesis of C30 Botryococcene and <i>epi</i> -Botryococcene by a Diastereoselective Ring Opening of Alkenylcyclopropanes. <i>Angewandte Chemie</i> , 2018, 130, 13421-13425.	1.6	8
115	Silver-Catalyzed Regio- and Stereoselective Formal Carbene Insertion into Unstrained C-C ĩf-Bonds of 1,3-Dicarbonyls. <i>Science</i> , 2018, 8, 54-60.	1.9	33
116	Organocatalytic Enantioselective 1,3-Difunctionalizations of Morita-Baylis-Hillman Carbonates. <i>Organic Letters</i> , 2018, 20, 6279-6283.	2.4	23
117	Dual photoredox and nickel-catalyzed desymmetric C=O coupling reactions: visible light-mediated enantioselective synthesis of 1,4-benzodioxanes. <i>Organic Chemistry Frontiers</i> , 2018, 5, 3098-3102.	2.3	39
118	Octahydrocyclopenta[ <i>c</i> ]pyridine Scaffold - Enantioselective Synthesis and Indole Annulation. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 5524-5531.	1.2	4
119	Catalytic enantioselective synthesis of cyclopropanes featuring vicinal all-carbon quaternary stereocenters with a CH <sub>2</sub> F group; study of the influence of C-F-H-N interactions on reactivity. <i>Organic Chemistry Frontiers</i> , 2018, 5, 2960-2968.	2.3	30
120	Enantioselective Desymmetrization of 1,3-Diols by a Chiral DMAP Derivative. <i>Chemistry Letters</i> , 2018, 47, 1360-1363.	0.7	14
121	Stereodivergent Synthesis of <sup>2,3</sup> -Fused Bicyclic <sup>3</sup> -Lactones via a Multicomponent Ring-Expansion Cascade. <i>Chem</i> , 2018, 4, 2228-2238.	5.8	8
122	Development of Synthetic Methodologies via Catalytic Enantioselective Synthesis of 3,3-Disubstituted Oxindoles. <i>Accounts of Chemical Research</i> , 2018, 51, 1443-1454.	7.6	321
123	Light-Driven, Zirconium-Catalyzed Hydrophosphination with Primary Phosphines. <i>ACS Catalysis</i> , 2018, 8, 6230-6238.	5.5	30
124	Desymmetrization of <i>meso</i> -Dibromocycloalkenes through Copper(I)-Catalyzed Asymmetric Allylic Substitution with Organolithium Reagents. <i>Journal of the American Chemical Society</i> , 2018, 140, 7052-7055.	6.6	26
125	Enantioselective Synthesis of Chiral Cyclopent-2-enones by Nickel-Catalyzed Desymmetrization of Malonate Esters. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9122-9125.	7.2	65
126	Enantioselective Synthesis of Chiral Cyclopent-2-enones by Nickel-Catalyzed Desymmetrization of Malonate Esters. <i>Angewandte Chemie</i> , 2018, 130, 9260-9263.	1.6	14
127	Transition-Metal-Catalyzed C-H Functionalization for Construction of Quaternary Carbon Centers. <i>Chemistry - A European Journal</i> , 2018, 24, 16218-16245.	1.7	55
128	Total Synthesis of Aplysiasesterol A. <i>Journal of the American Chemical Society</i> , 2018, 140, 9211-9218.	6.6	80
129	Chiral Aryliodine-Catalyzed Asymmetric Oxidative C-N Bond Formation via Desymmetrization Strategy. <i>Organic Letters</i> , 2018, 20, 4554-4557.	2.4	29



#	ARTICLE	IF	CITATIONS
130	Desymmetrisation of <i>meso</i> -diones promoted by a highly recyclable polymer-supported chiral phosphoric acid catalyst. <i>RSC Advances</i> , 2018, 8, 6910-6914.	1.7	17
131	Catalyst-Dependent Chemoselective Formal Insertion of Diazo Compounds into C-C or C-H Bonds of 1,3-Dicarbonyl Compounds. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8927-8931.	7.2	93
132	Palladium-Catalyzed Enantioselective Relay Heck Arylation of Enolactams: Accessing $\hat{1},\hat{2}$ -Unsaturated $\hat{1}$ -Lactams. <i>Journal of the American Chemical Society</i> , 2018, 140, 6527-6530.	6.6	69
133	Catalyst-Dependent Chemoselective Formal Insertion of Diazo Compounds into C-C or C-H Bonds of 1,3-Dicarbonyl Compounds. <i>Angewandte Chemie</i> , 2018, 130, 9065-9069.	1.6	20
134	Catalytic Intramolecular Acylsulfenylation of Activated Alkenes: Enantioselective Synthesis of 3,3-Disubstituted Quinoline-2,4-diones. <i>ACS Catalysis</i> , 2018, 8, 5460-5465.	5.5	7
135	Versatile Cobalt-Catalyzed Enantioselective Entry to Boryl-Functionalized All-Carbon Quaternary Stereogenic Centers. <i>Journal of the American Chemical Society</i> , 2018, 140, 10687-10690.	6.6	80
136	Total Synthesis of C <sub>30</sub> Botryococcene and <i>epi</i> -Botryococcene by a Diastereoselective Ring Opening of Alkenylcyclopropanes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13237-13241.	7.2	18
137	The dual reactivity of Weinreb amides applied to the late-stage divergent functionalisation of <i>meso</i> -pyrrolidines. <i>New Journal of Chemistry</i> , 2018, 42, 12403-12411.	1.4	3
138	Chiral Brønsted acid-catalyzed intramolecular S <sub>N</sub> 2 reaction for enantioselective construction of a quaternary stereogenic center. <i>Chemical Science</i> , 2018, 9, 5747-5757.	3.7	23
139	Metal-Free Oxidative Decarbonylative [3+2] Annulation of Terminal Alkynes with Tertiary Alkyl Aldehydes toward Cyclopentenones. <i>Journal of Organic Chemistry</i> , 2018, 83, 8581-8588.	1.7	14
140	Targeting the Remote Control of Axial Chirality in N-(2-tert-butylphenyl)Succinimides via a Desymmetrization Strategy. <i>Springer Theses</i> , 2018, , 61-117.	0.0	0
141	Aminodecalone Scaffolds - Enantioselective Synthesis, Indole and Quinoline Annulation. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4490-4497.	1.2	5
142	N-Heterocyclic Carbene (NHC)-Organocatalyzed Kinetic Resolutions, Dynamic Kinetic Resolutions, and Desymmetrizations. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2149-2163.	1.7	64
143	Catalytic and Enantioselective Direct $\hat{1}$ -Alkylation of 3-Aryl and 3-Alkyl Oxindole Using Quinine-Derived Urea Catalyst. <i>ChemistrySelect</i> , 2018, 3, 6160-6164.	0.7	1
144	Regio- and Stereoselective Synthesis of Fully Substituted Silyl Enol Ethers of Ketones and Aldehydes in Acyclic Systems. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14995-14999.	7.2	23
145	Enantioselective Organocatalytic Desymmetrization of Cyclopentene-1,3-diones through Formal C(sp <sup>2</sup> )-H Amidation. <i>Journal of Organic Chemistry</i> , 2019, 84, 11306-11315.	1.7	10
146	Construction of All-Carbon Quaternary Stereocenters by Palladium-Catalyzed Decarboxylative Propargylation. <i>Organic Letters</i> , 2019, 21, 5402-5406.	2.4	13
147	Enantioselective Copper-Catalyzed Desymmetrization of 1,3-Diketones Involving Borylation of Styrenes. <i>Organic Letters</i> , 2019, 21, 6040-6044.	2.4	24

#	ARTICLE	IF	CITATIONS
148	Design and Synthesis of <i>WJ-Phos</i> , and Application in Cu-Catalyzed Enantioselective Boroacylation of 1,1-Disubstituted Allenes. <i>ACS Catalysis</i> , 2019, 9, 6890-6895.	5.5	70
149	Enantioselective Friedel-Crafts Alkylation Reaction of Indoles with $\beta$ -Trifluoromethylated $\beta$ -Nitrostyrenes Catalyzed by Chiral BINOL Metal Phosphate. <i>ACS Catalysis</i> , 2019, 9, 6903-6909.	5.5	36
150	Visible-Light-Promoted $\beta$ , $\beta$ -Dibromination in Minutes: Efficient Route for Construction of Quaternary Carbon Centers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18542-18546.	3.2	5
151	Pd(II)-Catalyzed Enantioselective Desymmetrization of Polycyclic Cyclohexenediones: Conjugate Addition versus Oxidative Heck. <i>Organic Letters</i> , 2019, 21, 8689-8694.	2.4	13
153	Enantioselective Synthesis of $\beta$ -Quaternary Carbon-Containing Chromanes and 3,4-Dihydropyrans via Cu-Catalyzed Intramolecular C=O Bond Formation. <i>Organic Letters</i> , 2019, 21, 8852-8856.	2.4	9
154	Axial-to-Central Chirality Transfer for Construction of Quaternary Stereocenters via Dearomatization of BINOLs. <i>Organic Letters</i> , 2019, 21, 9188-9193.	2.4	23
155	Enantioselective Desymmetrization of Prochiral Cyclopentene-1,3-diones Triggered by Remote C(sp <sup>2</sup> )=N Bond Formation. <i>Journal of Organic Chemistry</i> , 2019, 84, 15735-15744.	1.7	9
156	Highly Selective and Catalytic Generation of Acyclic Quaternary Carbon Stereocenters via Functionalization of 1,3-Dienes with CO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2019, 141, 18825-18835.	6.6	104
157	Oxidative Addition Promoted C=C Bond Cleavage in Rh-Mediated Cyclopropenone Activation: A DFT Study. <i>ACS Catalysis</i> , 2019, 9, 10876-10886.	5.5	40
158	Controllable, Sequential, and Stereoselective C=C Allylic Alkylation of Alkenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 17305-17313.	6.6	28
160	Nickel-Catalyzed Asymmetric Intramolecular Reductive Heck Reaction of Unactivated Alkenes. <i>Organic Letters</i> , 2019, 21, 6989-6994.	2.4	42
162	Regio- and Stereoselective Synthesis of Fully Substituted Silyl Enol Ethers of Ketones and Aldehydes in Acyclic Systems. <i>Angewandte Chemie</i> , 2019, 131, 15137-15141.	1.6	5
163	Nickel-Catalyzed Desymmetric Hydrogenation of Cyclohexadienones: An Efficient Approach to All-Carbon Quaternary Stereocenters. <i>Journal of the American Chemical Society</i> , 2019, 141, 14560-14564.	6.6	41
164	Desymmetrization of meso-bisphosphates via rhodium catalyzed asymmetric allylic arylation. <i>Tetrahedron</i> , 2019, 75, 130560.	1.0	3
165	One-pot reactions of bicyclic zinc enolate generated from Ni-catalyzed reductive cyclization to furnish octahydro-4,7-ethanobenzofuran-9-one derivatives. <i>Tetrahedron Letters</i> , 2019, 60, 151148.	0.7	4
166	Catalyst-Controlled Product Selectivity for Cycloaddition of Bis(indol-3-yl)-allenes to Fused Spiroindolines and Mechanistic Studies. <i>Organic Letters</i> , 2019, 21, 8250-8255.	2.4	19
167	Efficient reductive desymmetrization of bulky 1,3-cyclodiketones enabled by structure-guided directed evolution of a carbonyl reductase. <i>Nature Catalysis</i> , 2019, 2, 931-941.	16.1	68
168	Stereoselective Desymmetrization of Cyclohexadienone-Tethered Enones: Efficient Access to Highly Strained Polycyclic Indoles. <i>ACS Catalysis</i> , 2019, 9, 10012-10019.	5.5	22

#	ARTICLE	IF	CITATIONS
169	Rh-Catalyzed diastereoselective desymmetrization of enone tethered-cyclohexadienones <i>via</i> tandem arylative cyclization. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1937-1946.	1.5	11
170	Enantioselective synthesis of 3-amino-hydrobenzofuran-2,5-diones <i>via</i> Cu( <i>scp</i> )-catalyzed intramolecular conjugate addition of imino esters. <i>Organic Chemistry Frontiers</i> , 2019, 6, 579-583.	2.3	6
171	Catalytic Enantioselective Construction of Spiro Quaternary Carbon Stereocenters. <i>ACS Catalysis</i> , 2019, 9, 1820-1882.	5.5	227
172	Diastereoselective Rh-catalyzed decarboxylative allylation to form quaternary stereocenters using sulfinimine as the directing group. <i>Organic Chemistry Frontiers</i> , 2019, 6, 732-735.	2.3	9
173	Cyclometalated Iridium-PhanePhos Complexes Are Active Catalysts in Enantioselective Allene-Fluoral Reductive Coupling and Related Alcohol-Mediated Carbonyl Additions That Form Acyclic Quaternary Carbon Stereocenters. <i>Journal of the American Chemical Society</i> , 2019, 141, 2087-2096.	6.6	41
174	Iron-catalysed enantioselective Suzuki-Miyaura coupling of racemic alkyl bromides. <i>Chemical Communications</i> , 2019, 55, 1128-1131.	2.2	56
175	Hydroalkynylative cyclization of 1,6-enynes with terminal alkynes. <i>Chemical Science</i> , 2019, 10, 6863-6867.	3.7	33
176	Enantioselective palladium/copper-catalyzed C-C $\sigma$ -bond activation synergized with Sonogashira-type C(sp <sup>3</sup> )-C(sp) cross-coupling alkynylation. <i>Chemical Science</i> , 2019, 10, 7579-7583.	3.7	55
177	Rh( <i>scp</i> )-Catalyzed stereoselective intramolecular cycloaddition reactions of ene-vinylidenecyclopropanes for the construction of fused 6,5-bicyclic skeletons with a quaternary all-carbon stereocenter. <i>Organic Chemistry Frontiers</i> , 2019, 6, 2506-2513.	2.3	10
178	Manganese-Catalyzed Divergent Markovnikov Addition and [2+2+2] Cycloaddition of 2-Carbonyl Indanone with Terminal Alkyne. <i>Journal of Organic Chemistry</i> , 2019, 84, 8185-8193.	1.7	10
179	Catalytic Asymmetric Staudinger-aza-Wittig Reaction for the Synthesis of Heterocyclic Amines. <i>Journal of the American Chemical Society</i> , 2019, 141, 9537-9542.	6.6	60
180	Enantio- and Diastereoselective Synthesis of Functionalized Carbocycles by Cu-Catalyzed Borylative Cyclization of Alkynes with Ketones. <i>Organic Letters</i> , 2019, 21, 5172-5177.	2.4	36
181	Desymmetrization of cyclic 1,3-diketones <i>via</i> Ir-catalyzed hydrogenation: an efficient approach to cyclic hydroxy ketones with a chiral quaternary carbon. <i>Chemical Science</i> , 2019, 10, 6350-6353.	3.7	41
182	Construction of Acyclic Quaternary Carbon Stereocenters by Catalytic Asymmetric Hydroalkynylation of Unactivated Alkenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 9312-9320.	6.6	57
183	Cobalt-Catalyzed Diastereoselective Difluoroalkylation/Giese Addition Domino Reactions. <i>Organic Letters</i> , 2019, 21, 5387-5391.	2.4	40
184	Synthesis of $\pm$ Quaternary Aldehydes via a Stereoselective Semi-Pinacol Rearrangement of Optically Active Epoxy Alcohols. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 1390-1393.	1.3	3
185	Synthesis of chromeno[4,3- <i>b</i> ]quinolines and spirobenzofuran-3,3'-quinolines through silver-mediated Appel reaction/C-Br bond cleavage/double selective rearrangement sequence. <i>Organic Chemistry Frontiers</i> , 2019, 6, 2334-2338.	2.3	7
186	Creation of bispiro[pyrazolone-3,3'-oxindoles] <i>via</i> a phosphine-catalyzed enantioselective [3 + 2] annulation of the Morita-Baylis-Hillman carbonates with pyrazoloneyldiene oxindoles. <i>Organic Chemistry Frontiers</i> , 2019, 6, 2210-2214.	2.3	39

#	ARTICLE	IF	CITATIONS
187	Enantioselective Cross-Exchange between C <sup>α</sup> -I and C <sup>β</sup> -C Bonds. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6747-6751.	7.2	62
188	Nickel-Catalyzed Asymmetric Reductive Arylalkylation of Unactivated Alkenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6722-6726.	7.2	155
189	Asymmetric Cycloetherification of in Situ Generated Cyanohydrins through the Concomitant Construction of Three Chiral Carbon Centers. <i>Organic Letters</i> , 2019, 21, 2156-2160.	2.4	19
190	Stereoselective Desymmetrization of gem-Diborylalkanes by Trifluorination. <i>Chemistry - A European Journal</i> , 2019, 25, 8008-8012.	1.7	21
191	Enantioselective Cross-Exchange between C <sup>α</sup> -I and C <sup>β</sup> -C Bonds. <i>Angewandte Chemie</i> , 2019, 131, 6819-6823.	7.2	16
192	Nickel-Catalyzed Asymmetric Reductive Arylalkylation of Unactivated Alkenes. <i>Angewandte Chemie</i> , 2019, 131, 6794-6798.	1.6	45
193	Electrochemical Semipinacol Rearrangements of Allylic Alcohols: Construction of All-Carbon Quaternary Stereocenters. <i>Organic Letters</i> , 2019, 21, 2536-2540.	2.4	74
194	Organocatalytic Desymmetrization Reactions for the Synthesis of Axially Chiral Compounds. <i>Chemical Record</i> , 2019, 19, 2095-2104.	2.9	52
195	Highly efficient biocatalytic desymmetrization of <i>meso</i> carbocyclic 1,3-dicarboxamides: a versatile route for enantiopure 1,3-disubstituted cyclohexanes and cyclopentanes. <i>Organic Chemistry Frontiers</i> , 2019, 6, 808-812.	2.3	8
196	A Spiroalkylation Method for the Stereoselective Construction of $\hat{\pm}$ -Quaternary Carbons and Its Application to the Total Synthesis of ( <i>R</i> )-Puraquinonic Acid. <i>Organic Letters</i> , 2019, 21, 9729-9733.	2.4	21
197	Construction of Multiple-Substituted Chiral Cyclohexanes through Hydrogenative Desymmetrization of 2,2,5-Trisubstituted 1,3-Cyclohexanediones. <i>Organic Letters</i> , 2019, 21, 9401-9404.	2.4	15
198	One-Pot Enantioselective Synthesis of 2-Pyrrolidinone Derivatives Bearing a Trifluoromethylated All-Carbon Quaternary Stereocenter. <i>Organic Letters</i> , 2019, 21, 9584-9588.	2.4	16
199	Lewis-Acid-Mediated Thiocyno Semipinacol Rearrangement of Allylic Alcohols for Construction of $\hat{\pm}$ -Quaternary Center $\hat{\pm}$ -Thiocyno Carbonyls. <i>Organic Letters</i> , 2019, 21, 9550-9554.	2.4	36
200	A Pd-catalyzed asymmetric allylic substitution cascade <i>via</i> an asymmetric desymmetrization for the synthesis of bicyclic dihydrofurans. <i>Chemical Communications</i> , 2019, 55, 13295-13298.	2.2	21
201	Tetrasubstituted allenes via the palladium-catalysed kinetic resolution of propargylic alcohols using a supporting ligand. <i>Nature Catalysis</i> , 2019, 2, 997-1005.	16.1	75
202	Diastereoselective Desymmetrization of <i>p</i> -Quinamines through Regioselective Ring Opening of Epoxides and Aziridines. <i>Organic Letters</i> , 2019, 21, 10115-10119.	2.4	17
203	Palladium-mediated domino oxidative amination of cyclohexadienes as an entry to indole alkaloids. <i>Tetrahedron</i> , 2019, 75, 561-569.	1.0	4
204	Desymmetrization of meso-bisphosphates using copper catalysis and alkylzirconocene nucleophiles. <i>Nature Communications</i> , 2019, 10, 21.	5.8	21

#	ARTICLE	IF	CITATIONS
205	Enantioselective Addition of Cyclic Ketones to Unactivated Alkenes Enabled by Amine/Pd(II) Cooperative Catalysis. <i>ACS Catalysis</i> , 2019, 9, 791-797.	5.5	72
206	Kinetic Resolution of Acylsilane Cyanohydrins via Organocatalytic Cycloetherification. <i>Chemistry - an Asian Journal</i> , 2019, 14, 116-120.	1.7	13
207	Catalytic Enantioselective $\beta$ -Ketol Rearrangement. <i>Angewandte Chemie</i> , 2019, 131, 509-513.	1.6	13
208	Catalytic Enantioselective $\beta$ -Ketol Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 499-503.	7.2	29
209	Asymmetric Michael addition of malonic diesters to acrylates by phase-transfer catalysis toward the construction of quaternary stereogenic $\beta$ -carbons. <i>Tetrahedron</i> , 2019, 75, 209-219.	1.0	6
210	Pd-Catalyzed Enantioselective Ring Opening/Cross-Coupling and Cyclopropanation of Cyclobutanones. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 897-901.	7.2	63
212	Divergent Enantioselective Synthesis of (Nor)illudalane Sesquiterpenes via Pd-Catalyzed Asymmetric C(sp <sup>3</sup> )-H Activation. <i>Organic Letters</i> , 2019, 21, 812-815.	2.4	29
213	Tuning the Reactivity of Ketones through Unsaturation: Construction of Cyclic and Acyclic Quaternary Stereocenters via Zn-ProPhenol Catalyzed Mannich Reactions. <i>ACS Catalysis</i> , 2019, 9, 1549-1557.	5.5	37
214	Asymmetric Synthesis of $\beta$ -Quaternary $\beta$ -Lactams through Palladium-Catalyzed Asymmetric Allylic Alkylation. <i>Organic Letters</i> , 2019, 21, 603-607.	2.4	31
215	Enantioselective Desymmetrization of Cyclobutanones: A Speedway to Molecular Complexity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6964-6974.	7.2	50
216	Enantioselective Desymmetrisierung von Cyclobutanonen: Eine Schnellstraße zu molekularer Komplexität. <i>Angewandte Chemie</i> , 2020, 132, 7028-7038.	1.6	12
217	Relay Rh/Pd(0) dual catalysis: synthesis of $\beta$ -quaternary $\beta$ -keto-esters via a [1,2]-sigmatropic rearrangement/allylic alkylation cascade of $\beta$ -diazo tertiary alcohols. <i>Chemical Communications</i> , 2020, 56, 782-785.	2.2	14
218	Organocatalytic enantioselective synthesis of 2,5,5-trisubstituted piperidines bearing a quaternary stereocenter. Vinyl sulfonamide as a new amine protecting group. <i>Chemical Communications</i> , 2020, 56, 1425-1428.	2.2	13
219	Asymmetric Synthesis of a Fused Tricyclic Hydronaphthofuran Scaffold by Desymmetric [2+2+2] Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2220-2224.	7.2	40
220	Construction of All-Carbon Quaternary Stereocenters by Scandium-Catalyzed Intramolecular C-H Alkylation of Imidazoles with 1,1-Disubstituted Alkenes. <i>Journal of the American Chemical Society</i> , 2020, 142, 1200-1205.	6.6	86
221	Desymmetrization of Prochiral Cyclopentenes Enabled by Enantioselective Palladium-Catalyzed Oxidative Heck Reaction. <i>Organic Letters</i> , 2020, 22, 322-325.	2.4	17
222	Construction of Cyclopropa[ <i>c</i> ]coumarins via cascade Michael-alkylation process of 3-cyanocoumarin with 2-bromomalonate. <i>Tetrahedron</i> , 2020, 76, 130852.	1.0	8
223	Enantioselective synthesis of <i>P</i> -chiral tertiary phosphine oxides with an ethynyl group via Cu-catalyzed azide-alkyne cycloaddition. <i>Chemical Science</i> , 2020, 11, 97-106.	3.7	55

#	ARTICLE	IF	CITATIONS
224	Enantioselective Access to $\beta$ -All-Carbon Quaternary Center-Containing Cyclohexanones by Palladium-Catalyzed Desymmetrization. <i>ACS Catalysis</i> , 2020, 10, 216-224.	5.5	21
225	Organocatalytic site- and stereoselective 1,6-additions of <i>N</i> -aryl-3-oxobutanamides to propargylic aza- <i>p</i> -quinone methides. <i>Organic Chemistry Frontiers</i> , 2020, 7, 3446-3451.	2.3	25
226	Diastereodivergent Synthesis of $\beta$ -Chiral Tertiary Azides through Catalytic Asymmetric Michael Addition. <i>Organic Letters</i> , 2020, 22, 8578-8583.	2.4	9
227	Construction of $\beta$ -Quaternary $\beta,\beta$ -Difluoroketones via Catalytic Nucleophilic Substitution of Tertiary Alcohols with Difluoroenoxy silanes. <i>Organic Letters</i> , 2020, 22, 8516-8521.	2.4	19
228	Co-evolution of activity and thermostability of an aldo-keto reductase KmAKR for asymmetric synthesis of statin precursor dichiral diols. <i>Bioorganic Chemistry</i> , 2020, 103, 104228.	2.0	16
229	Advances in the catalytic asymmetric synthesis of quaternary carbon containing cyclobutanes. <i>Organic Chemistry Frontiers</i> , 2020, 7, 2576-2597.	2.3	25
230	Catalytic enantioselective allene- $\alpha$ -anhydride approach to $\beta,\beta$ -unsaturated enones bearing an $\beta$ -all-carbon-quaternary center. <i>Chemical Science</i> , 2020, 11, 9115-9121.	3.7	21
231	Diastereo-, Enantio-, and <i>anti</i> -Selective Formation of Secondary Alcohol and Quaternary Carbon Stereocenters by Cu-Catalyzed Additions of <i>B</i> -Substituted Allyl Nucleophiles to Carbonyls. <i>Organic Letters</i> , 2020, 22, 9269-9275.	2.4	21
232	Enantioselective Synthesis of Multisubstituted Spirocyclopentane Oxindoles Enabled by Pd/Chiral Rh(III) Complex Synergistic Catalysis. <i>Organic Letters</i> , 2020, 22, 9539-9544.	2.4	21
233	Desymmetrization of <i>meso</i> -Dicarbonatecyclohexene with $\beta$ -Hydrazino Carboxylic Esters via a Pd-Catalyzed Allylic Substitution Cascade. <i>Organic Letters</i> , 2020, 22, 8836-8841.	2.4	16
234	Desymmetrization of Cyclopentene- $\alpha,\beta$ -Diones via Alkylation, Arylation, Amidation and Cycloaddition Reactions. <i>ChemistrySelect</i> , 2020, 5, 14484-14509.	0.7	16
235	Carbamoyl Fluoride-Enabled Enantioselective Ni-Catalyzed Carbocarbamoylation of Unactivated Alkenes. <i>Journal of the American Chemical Society</i> , 2020, 142, 19844-19849.	6.6	49
236	Desymmetrization Process by Mg(II)-Catalyzed Intramolecular Vinylogous Michael Reaction. <i>Organic Letters</i> , 2020, 22, 9229-9233.	2.4	7
237	Enantioselective [3+2] annulation of isatin-derived MBH-carbonates and 3-nitroindoles enabled by a bifunctional DMAP-thiourea. <i>Chemical Communications</i> , 2020, 56, 10718-10721.	2.2	30
238	Catalytic enantioselective construction of vicinal quaternary carbon stereocenters. <i>Chemical Science</i> , 2020, 11, 9341-9365.	3.7	96
239	<i>Candida antarctica</i> lipase-catalyzed kinetic resolution of 1,3-dialkyl- $\beta$ -hydroxymethyl oxindoles. <i>Chirality</i> , 2020, 32, 1377-1394.	1.3	3
240	Biocatalytic reductive desymmetrization of prochiral 1,3-diketone and its application to microbial hormone synthesis. <i>Molecular Catalysis</i> , 2020, 497, 111217.	1.0	3
241	Recent Advances in Reductive Desymmetrization of Diketones. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 1942-1952.	1.3	18



#	ARTICLE	IF	CITATIONS
242	Diazanorbornene: A Valuable Synthone towards Carbocycles and Heterocycles. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6588-6613.	1.2	6
243	Regioselective Markovnikov hydrodifluoroalkylation of alkenes using difluoroenoxy silanes. <i>Nature Communications</i> , 2020, 11, 5500.	5.8	47
244	Construction of all-carbon quaternary stereocenters by catalytic asymmetric conjugate addition to cyclic enones in natural product synthesis. <i>Organic Chemistry Frontiers</i> , 2020, 7, 3815-3841.	2.3	40
245	Desymmetrization of <i>gem</i> -diols via water-assisted organocatalytic enantio- and diastereoselective cycloetherification. <i>Chemical Communications</i> , 2020, 56, 12335-12338.	2.2	18
246	Palladium-catalyzed asymmetric C-H carbonylation to diverse isoquinoline derivatives bearing all-carbon quaternary stereocenters. <i>Chemical Communications</i> , 2020, 56, 11605-11608.	2.2	17
247	All-carbon [3 + 2] cycloaddition in natural product synthesis. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 3015-3031.	1.3	15
248	Breaking Molecular Symmetry through Biocatalytic Reactions to Gain Access to Valuable Chiral Synthons. <i>Symmetry</i> , 2020, 12, 1454.	1.1	16
249	Enantioselective Construction of Chiral Cyclopropa[ <i>c</i> ]coumarins via Lewis Base-Catalyzed Cyclopropanation. <i>Journal of Organic Chemistry</i> , 2020, 85, 14963-14970.	1.7	8
250	Desymmetrization of unactivated bis-alkenes via chiral Brønsted acid-catalysed hydroamination. <i>Chemical Science</i> , 2020, 11, 5987-5993.	3.7	19
251	Copper-Catalyzed Asymmetric Carboboration of Allenes to Access $\hat{\pm}$ -Quaternary Amino Esters with Adjacent Stereocenters. <i>Cell Reports Physical Science</i> , 2020, 1, 100067.	2.8	22
252	Enantio- and Diastereoselective Construction of Contiguous Tetrasubstituted Chiral Carbons in Organocatalytic Oxadecalin Synthesis. <i>Organic Letters</i> , 2020, 22, 4710-4715.	2.4	17
253	Synthesis of Quaternary Carbon Stereogenic Centers by Diastereoselective Conjugate Addition of Boron-Stabilized Allylic Nucleophiles to Enones. <i>Journal of the American Chemical Society</i> , 2020, 142, 9925-9931.	6.6	16
254	Palladium catalyzed asymmetric allylic alkylation of isoquinolinedione derivatives in the preparation of quaternary carbon stereocenters. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 4551-4555.	1.5	7
255	Desymmetrization construction of chiral lactones by synergistic Cu(II) complex and organic base. <i>Tetrahedron Letters</i> , 2020, 61, 152106.	0.7	6
256	Dual catalytic enantioselective desymmetrization of allene-tethered cyclohexanones. <i>Chemical Science</i> , 2020, 11, 7444-7450.	3.7	11
257	Aspects in the Total Syntheses of Higher Terpenoids Starting From Wieland-Miescher Ketone and Its Derivative: A Review. <i>Natural Product Communications</i> , 2020, 15, 1934578X2092534.	0.2	4
258	Catalytic enantioselective desymmetrizing functionalization of alkyl radicals via Cu(I)/CPA cooperative catalysis. <i>Nature Catalysis</i> , 2020, 3, 401-410.	16.1	71
259	Strong and Confined Acids Control Five Stereogenic Centers in Catalytic Asymmetric Diels-Alder Reactions of Cyclohexadienones with Cyclopentadiene. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12347-12351.	7.2	30

#	ARTICLE	IF	CITATIONS
260	Nickel-catalyzed intramolecular desymmetrization addition of aryl halides to 1,3-diketones. <i>Chemical Communications</i> , 2020, 56, 8194-8197.	2.2	17
261	Synthesis of <i>cis</i> - $\beta$ -Hydroxy Ketones by Desymmetrization of 1,3-Cyclopentanediones through Ruthenium-Catalyzed Hydrogen Transfer. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 753-756.	1.3	10
262	Catalytic, Asymmetric Dearomative Synthesis of Complex Cyclohexanes via a Highly Regio- and Stereoselective Arene Cyclopropanation Using $\beta$ -Cyanodiaoacetates. <i>Journal of the American Chemical Society</i> , 2020, 142, 6449-6455.	6.6	34
263	Enantioselective Assembly of Cycloenones with a Nitrile-Containing All-Carbon Quaternary Center from Malononitriles Enabled by Ni Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 7328-7333.	6.6	49
264	Enantioselective Desymmetrizations of Diesters to Synthesize Fully Substituted Chiral Centers of 3,4-Dihydrocoumarins and Related Compounds. <i>ChemistrySelect</i> , 2020, 5, 3018-3022.	0.7	7
265	Stereospecific Electrophilic Fluorocyclization of $\beta,\beta$ -Unsaturated Amides with Selectfluor. <i>Organic Letters</i> , 2020, 22, 2651-2656.	2.4	10
266	Enantioselective Synthesis of Tricyclic $\beta$ -Lactones by NHC-Catalyzed Desymmetrization of Cyclic 1,3-Diketones. <i>Organic Letters</i> , 2020, 22, 5407-5411.	2.4	26
267	Palladium-catalyzed direct asymmetric C-H bond functionalization enabled by the directing group strategy. <i>Chemical Science</i> , 2020, 11, 12616-12632.	3.7	71
268	Cinchona Squaramide-Catalyzed Intermolecular Desymmetrization of 1,3-Diketones Leading to Chiral 1,4-Dihydropyridines. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 3613-3620.	2.1	14
269	N-Heterocyclic Carbene-Catalyzed Enantioselective Intramolecular Annulations to Construct Benzo-Fused Pyranones with Quaternary Stereocenter. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 3830-3835.	2.1	12
270	Starke und sterisch begrenzte SÄuren kontrollieren $\beta,\beta$ stereogene Zentren in der katalytischen asymmetrischen Diels-Alder-Reaktion von Cyclohexadienonen mit Cyclopentadien. <i>Angewandte Chemie</i> , 2020, 132, 12446-12450.	1.6	7
271	Cu-Catalyzed Diastereo- and Enantioselective Reactions of $\beta,\beta$ -Disubstituted Allyldiboron Compounds with Ketones. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8451-8455.	7.2	36
272	Cu-Catalyzed Diastereo- and Enantioselective Reactions of $\beta,\beta$ -Disubstituted Allyldiboron Compounds with Ketones. <i>Angewandte Chemie</i> , 2020, 132, 8529-8533.	1.6	11
273	Chiral Aluminum Complex Controls Enantioselective Nickel-Catalyzed Synthesis of Indenes: C $\beta$ -CN Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7439-7443.	7.2	32
274	Asymmetric Synthesis of a Fused Tricyclic Hydronaphthofuran Scaffold by Desymmetric [2+2+2] Cycloaddition. <i>Angewandte Chemie</i> , 2020, 132, 2240-2244.	1.6	9
275	Chiral Aluminum Complex Controls Enantioselective Nickel-Catalyzed Synthesis of Indenes: C $\beta$ -CN Bond Activation. <i>Angewandte Chemie</i> , 2020, 132, 7509-7513.	1.6	4
276	Enantioselective Construction of Quaternary Stereogenic Centers by the Addition of an Acyl Anion Equivalent to 1,3-Dienes. <i>Organic Letters</i> , 2020, 22, 2032-2037.	2.4	34
277	Straightforward access to densely substituted chiral succinimides through enantioselective organocatalyzed Michael addition of $\beta$ -alkyl-cyclic ketones to maleimides. <i>Organic Chemistry Frontiers</i> , 2020, 7, 1224-1229.	2.3	7

#	ARTICLE	IF	CITATIONS
278	Diastereo- and Enantioselective Synthesis of Homoallylic Amines Bearing Quaternary Carbon Centers. <i>Journal of the American Chemical Society</i> , 2020, 142, 1704-1709.	6.6	39
279	Cross-dehydrogenative coupling enables enantioselective access to CF <sub>3</sub> -substituted all-carbon quaternary stereocenters. <i>Chemical Science</i> , 2020, 11, 2414-2419.	3.7	38
280	Enantioselective Cu(I)-Catalyzed Cycloaddition of Prochiral Diazides with Terminal or 1-Iodoalkynes. <i>Organic Letters</i> , 2020, 22, 1270-1274.	2.4	23
281	Synthesis of Chiral Triarylmethanes Bearing All-Carbon Quaternary Stereocenters: Catalytic Asymmetric Oxidative Cross-Coupling of 2,2-Diarylacetonitriles and (Hetero)arenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3053-3057.	7.2	45
282	Isothiourea-Catalyzed Atropselective Acylation of Biaryl Phenols via Sequential Desymmetrization/Kinetic Resolution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7897-7905.	7.2	47
283	Pd-Catalyzed Asymmetric Allylic Substitution Annulation Using Enolizable Ketimines as Nucleophiles: An Alternative Approach to Chiral Tetrahydroindoles. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 2059-2069.	2.1	12
284	Double allylic defluorinative alkylation of 1,1-bisnucleophiles with (trifluoromethyl)alkenes: construction of all-carbon quaternary centers. <i>Organic Chemistry Frontiers</i> , 2020, 7, 1260-1265.	2.3	38
285	Structure-Guided Directed Evolution of a Carbonyl Reductase Enables the Stereoselective Synthesis of (2 <i>S</i> ,3 <i>S</i> )-2,2-Disubstituted-3-hydroxycyclopentanones via Desymmetric Reduction. <i>Organic Letters</i> , 2020, 22, 3444-3448.	2.4	19
286	Recent Advances in Enantioselective Desymmetrizations of Prochiral Oxetanes. <i>Chemistry - A European Journal</i> , 2021, 27, 5871-5879.	1.7	25
287	Catalytic Enantioselective Desymmetrization of Cyclobutane-1,3-diones by Carbonyl-Amine Condensation. <i>Organic Letters</i> , 2021, 23, 1118-1122.	2.4	12
288	2,3-Dimethoxy-2,3-dimethyl-1,4-dioxane as a useful precursor to 2,3-dimethylene-1,4-dioxane for [4+2] cycloaddition reaction. <i>RSC Advances</i> , 2021, 11, 7972-7980.	1.7	1
289	Recent advances in the asymmetric transformations of achiral cyclohexadienones. <i>Organic Chemistry Frontiers</i> , 2021, 8, 825-843.	2.3	45
290	Enantioselective construction of the 8-azabicyclo[3.2.1]octane scaffold: application in the synthesis of tropane alkaloids. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 3763-3775.	1.5	5
291	Diastereoselective desymmetrization reactions of prochiral para-quinamines with cyclopropenes generated in situ: access to fused hydroindol-5-one scaffolds. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 7129-7133.	1.5	4
292	Chemo- and enantioselective hetero-coupling of hydroxycarbazoles catalyzed by a chiral vanadium( $\nu$ ) complex. <i>Organic Chemistry Frontiers</i> , 2021, 8, 4878-4885.	2.3	20
293	Direct access to tetrasubstituted cyclopentenyl scaffolds through a diastereoselective isocyanide-based multicomponent reaction. <i>Chemical Science</i> , 2021, 12, 15862-15869.	3.7	2
294	Catalytic asymmetric synthesis of monofluoroalkenes and gem-difluoroalkenes: advances and perspectives. <i>Organic Chemistry Frontiers</i> , 2021, 8, 2315-2327.	2.3	63
295	Palladium-Catalyzed Asymmetric Direct Intermolecular Allylation of $\hat{\pm}$ -Aryl Cyclic Vinylogous Esters: Divergent Synthesis of (+)-Oxomaritidine and ( $\hat{\alpha}$ )-Mesembrine. <i>Organic Letters</i> , 2021, 23, 920-924.	2.4	12

#	ARTICLE	IF	CITATIONS
296	N-Heterocyclic carbene catalyzed asymmetric [3 + 3] cycloaddition of $\hat{1}^2, \hat{1}^2$ -disubstituted, $\hat{1}^{\pm}, \hat{1}^2$ -unsaturated carboxylic esters with 3-aminobenzofurans. <i>Organic Chemistry Frontiers</i> , 2021, 8, 1569-1574.	2.3	13
297	Copper(I)-Catalyzed Asymmetric Desymmetric Intramolecular Alkenyl C–N Coupling Reaction. <i>Acta Chimica Sinica</i> , 2021, 79, 649.	0.5	4
298	Doyle's Kirmse reaction using 3,3-difluoroallyl sulfide and <i>N</i> -sulfonyl-1,2,3-triazole: an efficient access to <i>gem</i> -difluoroallylated multifunctional quaternary carbon. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6974-6978.	1.5	9
299	Recent advances in organocatalytic asymmetric multicomponent cascade reactions for enantioselective synthesis of spirooxindoles. <i>Organic Chemistry Frontiers</i> , 2021, 8, 4315-4348.	2.3	122
300	Highly enantioselective one-pot sequential synthesis of valerolactones and pyrazolones bearing all-carbon quaternary stereocentres. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 1610-1615.	1.5	1
301	Recent developments in highly efficient construction of P-stereogenic centers. <i>Green Synthesis and Catalysis</i> , 2021, 2, 6-18.	3.7	62
302	Multipoint Recognition of Molecular Conformations with Organocatalysts for Asymmetric Synthetic Reactions. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 694-712.	2.0	9
303	Highly Enantioselective Ring-Opening of <i>meso</i> -Epoxides with <i>O</i> - and <i>N</i> -Nucleophiles Catalyzed by a Chiral Sc(III)/bipyridine Complex. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 1249-1257.	1.2	4
304	Metal-Free Reductive Aldol Reactions. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 680-691.	1.3	8
305	Catalytic Enantioselective Desymmetrizing Fischer Indolization through Dynamic Kinetic Resolution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9086-9092.	7.2	16
306	CuH-Catalyzed Regio- and Enantioselective Hydrocarboxylation of Allenes: Toward Carboxylic Acids with Acyclic Quaternary Centers. <i>Journal of the American Chemical Society</i> , 2021, 143, 4935-4941.	6.6	38
307	Catalytic Enantioselective Desymmetrizing Fischer Indolization through Dynamic Kinetic Resolution. <i>Angewandte Chemie</i> , 2021, 133, 9168-9174.	1.6	3
308	Recent Advances in (Dynamic) Kinetic Resolution and Desymmetrization Catalyzed by Chiral Phosphoric Acids. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 692-710.	1.3	60
309	Theoretical Model for N-Heterocyclic Carbene-Catalyzed Desymmetrizing [4 + 1] and [4 + 2] Annulations of an Enal and Aryldialdehyde with 1,3-Cyclopentenedione. <i>Organic Letters</i> , 2021, 23, 2421-2425.	2.4	26
310	A versatile approach to functionalized cyclic ketones bearing quaternary carbon stereocenters via organocatalytic asymmetric conjugate addition of nitroalkanes to cyclic $\hat{1}^2$ -substituted $\hat{1}^{\pm}, \hat{1}^2$ -Enones. <i>Tetrahedron</i> , 2021, 84, 132005.	1.0	5
311	Desymmetrization of 1,3-Diones by Catalytic Enantioselective Condensation with Hydrazine. <i>Journal of the American Chemical Society</i> , 2021, 143, 4179-4186.	6.6	39
312	Ni-catalyzed enantioselective [2 + 2] cycloaddition of malononitriles with alkynes. <i>CheM</i> , 2021, 7, 799-811.	5.8	27
313	Enantioselective Synthesis of $\hat{1}^{\pm}$ -All-Carbon Quaternary Center-Containing Carbazolones via Amino-palladation/Desymmetrizing Nitrile Addition Cascade. <i>Journal of the American Chemical Society</i> , 2021, 143, 3734-3740.	6.6	37

#	ARTICLE	IF	CITATIONS
314	Mechanistic Insights into Formation of All-Carbon Quaternary Centers via Scandium-Catalyzed C-H Alkylation of Imidazoles with 1,1-Disubstituted Alkenes. <i>Journal of Organic Chemistry</i> , 2021, 86, 4598-4606.	1.7	7
315	Enantioselective Hydroesterificative Cyclization of 1,6-Enynes to Chiral $\beta^3$ -Lactams Bearing a Quaternary Carbon Stereocenter. <i>Organic Letters</i> , 2021, 23, 3561-3566.	2.4	16
316	Nickel-Catalyzed Desymmetrizing Cyclization of 1,6-Dienes to Construct Quaternary Stereocenters. <i>Organic Letters</i> , 2021, 23, 3814-3817.	2.4	6
317	Organocatalytic Enantioselective Desymmetrization of Prochiral 2,2-Disubstituted Cyclic 1,3-Diones. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 1267-1281.	1.3	13
318	Merging Imidazolidines with a Trifluoromethylated Tetrasubstituted Carbon through Tungsten Catalyzed 1,3-Dipolar Cycloaddition. <i>Journal of Organic Chemistry</i> , 2021, 86, 7714-7724.	1.7	4
319	Synergistic Ir/Cu Catalysis for Asymmetric Allylic Alkylation of Oxindoles: Enantio- and Diastereoselective Construction of Quaternary and Tertiary Stereocenters. <i>Chemistry - A European Journal</i> , 2021, 27, 10255-10260.	1.7	15
320	Transition-Metal-Catalyzed Asymmetric Couplings of $\beta$ -Aminoalkyl Fragments to Access Chiral Alkylamines. <i>ACS Catalysis</i> , 2021, 11, 6560-6577.	5.5	25
321	Synthesis of the tricyclic skeleton of Daphniphyllum alkaloids daphnimacropodines. <i>Tetrahedron Letters</i> , 2021, 71, 153030.	0.7	5
322	Modular Synthesis of $\beta$ -Quaternary Chiral $\beta^3$ -Lactams by a Synergistic Copper/Palladium-Catalyzed Multicomponent Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13814-13818.	7.2	43
323	Modular Synthesis of $\beta$ -Quaternary Chiral $\beta^3$ -Lactams by a Synergistic Copper/Palladium-Catalyzed Multicomponent Reaction. <i>Angewandte Chemie</i> , 2021, 133, 13933-13937.	1.6	8
324	Enantioselective desymmetrization of 2-substituted and 2,2-disubstituted 1,3-propanediamines via asymmetric para-aminations of anilines. <i>Cell Reports Physical Science</i> , 2021, 2, 100413.	2.8	11
325	Water and fluorinated alcohol mediated/promoted tandem insertion/aerobic oxidation/bisindolylolation under metal-free conditions: Easy access to bis(indolyl)methanes. <i>Chinese Chemical Letters</i> , 2021, 32, 1696-1700.	4.8	12
326	Pd-Catalyzed Enantioselective Dicarbonylfunctionalization of Alkene to Access Disubstituted Dihydroisoquinolinone. <i>Organic Letters</i> , 2021, 23, 4099-4103.	2.4	20
327	Propargylic Amination Enabled the Access to Enantioenriched Acyclic $\beta$ -Quaternary $\beta$ -Amino Ketones. <i>Journal of the American Chemical Society</i> , 2021, 143, 7629-7634.	6.6	54
328	Palladium-Catalyzed Allenamide Carbopalladation/Allylation with Active Methine Compounds. <i>Organic Letters</i> , 2021, 23, 4630-4634.	2.4	11
329	Leveraging Fleeting Strained Intermediates to Access Complex Scaffolds. <i>JACS Au</i> , 2021, 1, 897-912.	3.6	37
330	Access to enantioenriched compounds bearing challenging tetrasubstituted stereocenters via kinetic resolution of auxiliary adjacent alcohols. <i>Nature Communications</i> , 2021, 12, 3735.	5.8	13
331	The gains from breaking symmetry. <i>Nature Chemistry</i> , 2021, 13, 623-624.	6.6	1

#	ARTICLE	IF	CITATIONS
332	Transition-Metal Catalyzed Stereoselective Desymmetrization of Prochiral Cyclohexadienones. <i>Chemical Record</i> , 2021, 21, 3689-3726.	2.9	26
333	Pd/Cu Dual-Catalyzed Asymmetric Synthesis of Highly Functional All-Carbon Quaternary Stereocenters from Vinyl Carbonates. <i>Chemistry - A European Journal</i> , 2021, 27, 10107-10114.	1.7	12
334	Recent Advances in the Construction of Quaternary Stereocenters via Palladium-Catalyzed Decarboxylative Asymmetric Allylic Alkylation. <i>Synthesis</i> , 2021, 53, 4341-4352.	1.2	12
335	Rhodium(III)-Catalyzed Asymmetric Reductive Cyclization of Cyclohexadienone-Containing 1,6-Dienes via an Anti-Michael/Michael Cascade Process. <i>ACS Catalysis</i> , 2021, 11, 8015-8022.	5.5	13
336	Catalytic reductive desymmetrization of malonic esters. <i>Nature Chemistry</i> , 2021, 13, 634-642.	6.6	36
337	Ir-Catalyzed Regio- and Enantioselective Hydroalkynylation of Trisubstituted Alkene to Access All-Carbon Quaternary Stereocenters. <i>Journal of the American Chemical Society</i> , 2021, 143, 9639-9647.	6.6	38
338	Highly Enantioselective Iridium(I)-Catalyzed Hydrocarbonation of Alkenes: A Versatile Approach to Heterocyclic Systems Bearing Quaternary Stereocenters. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19297-19305.	7.2	27
339	Palladium/TY-Phos-Catalyzed Asymmetric Intermolecular $\alpha$ -Arylation of Aldehydes with Aryl Bromides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18542-18546.	7.2	28
340	Enantioselective Synthesis of Fused Isocoumarins via Palladium-Catalyzed Annulation of Alkyne-Tethered Malononitriles. <i>Journal of Organic Chemistry</i> , 2021, 86, 10799-10811.	1.7	9
341	Catalytic Asymmetric Cyanoalkylation of Electron-Deficient Olefins with Potassium Cyanide and Alkyl Halides. <i>Journal of the American Chemical Society</i> , 2021, 143, 11218-11224.	6.6	11
342	Construction of CF <sub>3</sub> -Containing Quaternary Chiral Centers via Michael Addition Reactions. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 1815-1822.	2.0	2
343	Palladium/TY-Phos-Catalyzed Asymmetric Intermolecular $\alpha$ -Arylation of Aldehydes with Aryl Bromides. <i>Angewandte Chemie</i> , 2021, 133, 18690-18694.	1.6	6
344	Enantioselective Construction of 5 <sup>+</sup> Tricyclic Lactone Framework Bearing a Quaternary Bridgehead Carbon via Rh-Catalyzed Asymmetric [2+2+2] Cycloaddition of Ene-diyne. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 4182-4189.	2.1	6
345	Construction of Vicinal Quaternary Carbon Stereocenters Through Diastereo- and Enantioselective Oxidative 1,6-Conjugate Addition. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18499-18503.	7.2	29
346	Construction of Vicinal Quaternary Carbon Stereocenters Through Diastereo- and Enantioselective Oxidative 1,6-Conjugate Addition. <i>Angewandte Chemie</i> , 2021, 133, 18647-18651.	1.6	8
347	Highly Enantioselective Iridium(I)-Catalyzed Hydrocarbonation of Alkenes: A Versatile Approach to Heterocyclic Systems Bearing Quaternary Stereocenters. <i>Angewandte Chemie</i> , 2021, 133, 19446-19454.	1.6	3
348	Enantioselective Construction of Single and Vicinal All-Carbon Quaternary Stereocenters through Ion-Pair-Catalyzed 1,6-Conjugate Addition. <i>Organic Letters</i> , 2021, 23, 7248-7253.	2.4	10
349	Enantioselective Synthesis of Acyclic Orthogonally Functionalized Compounds Bearing a Quaternary Stereocenter Using Chiral Ammonium Salt Catalysis. <i>ChemistryOpen</i> , 2021, 10, 756-759.	0.9	1



#	ARTICLE	IF	CITATIONS
350	Desymmetrization of Cyclic 1,3-Diketones under <i>N</i> -Heterocyclic Carbene Organocatalysis: Access to Organofluorines with Multiple Stereogenic Centers. <i>Research</i> , 2021, 2021, 9867915.	2.8	8
351	Enantioselective Synthesis of Pyridines with All-Carbon Quaternary Carbon Centers via Cobalt-Catalyzed Desymmetric [2+2+2] Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20204-20209.	7.2	28
352	Pd-Catalyzed Asymmetric Acyl-Carbamoylation of an Alkene to Construct an $\hat{\pm}$ -Quaternary Chiral Cycloketone. <i>Organic Letters</i> , 2021, 23, 6299-6304.	2.4	12
353	Enantioselective Synthesis of Pyridines with All-Carbon Quaternary Carbon Centers via Cobalt-Catalyzed Desymmetric [2+2+2] Cycloaddition. <i>Angewandte Chemie</i> , 2021, 133, 20366-20371.	1.6	2
354	Enantioselective Rh(II)-Catalyzed Desymmetric Cycloisomerization of Diynes: Constructing Furan-Fused Dihydropiperidines with an Alkyne-Substituted Aza-Quaternary Stereocenter. <i>Journal of the American Chemical Society</i> , 2021, 143, 14916-14925.	6.6	35
355	Ambiphilic Reactivity of Vinyl Pd-Oxyallyl for Expedient Construction of Highly Functionalized Cyclooctanoids. <i>Organic Letters</i> , 2021, 23, 7330-7335.	2.4	18
356	Chiral Phosphoric Acid Catalyzed Asymmetric Desymmetrization of <i>para</i> -Quinamines with Isocyanates: Access to Functionalized Imidazolidin-2-one Derivatives. <i>Organic Letters</i> , 2021, 23, 7873-7877.	2.4	9
357	Substrate-Controlled Chemo-Enantioselective Synthesis of $\hat{\pm}$ -Benzylated Enals and Chiral Cyclopropane-Fused $\hat{\pm}$ -Chromanone Derivatives. <i>Advanced Synthesis and Catalysis</i> , 0, , .	2.1	4
358	Enantioselective Synthesis of Nitrogen-Nitrogen Biaryl Atropisomers via Copper-Catalyzed Friedel-Crafts Alkylation Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 15005-15010.	6.6	89
359	Development of chiral bisphosphoric acid/boronic acid co-catalyst system for enantioselective SN <sub>2</sub> <sup>TM</sup> reaction. <i>Tetrahedron</i> , 2021, 98, 132412.	1.0	5
360	Regio-, Chemo-, and Enantioselective Ni-Catalyzed Hydrocyanation of 1,3-Dienes. <i>Organic Letters</i> , 2021, 23, 930-935.	2.4	15
361	Chiral Bifunctional Chalcogenide-Catalyzed Enantioselective Electrophilic Thiofunctionalization of Alkenes. <i>Chinese Journal of Organic Chemistry</i> , 2021, 41, 443.	0.6	12
362	Enantioselective Desymmetrization of 1,3-Disubstituted Adamantane Derivatives via Rhodium-Catalyzed C-H Bond Amination: Access to Optically Active Amino Acids Containing Adamantane Core. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 1662-1671.	2.1	8
363	Mechanism and Selectivity of N-Heterocyclic Carbene-Catalyzed Desymmetrizing [4+1] and [4+2] Annulations. <i>Chinese Journal of Organic Chemistry</i> , 2021, 41, 2530.	0.6	6
364	Merging kinetic resolution with C-H activation: an efficient approach for enantioselective synthesis. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 4014-4026.	1.5	13
365	Biosynthesis of chiral cyclic and heterocyclic alcohols <i>via</i> C=O/C-H/C=O asymmetric reactions. <i>Catalysis Science and Technology</i> , 2021, 11, 2637-2651.	2.1	11
366	Asymmetric total synthesis of (+)-xestoquinone and (+)-adociaquinones A and B. <i>Chemical Science</i> , 2021, 12, 4747-4752.	3.7	15
367	Synthesis of Chiral Triarylmethanes Bearing All-Carbon Quaternary Stereocenters: Catalytic Asymmetric Oxidative Cross-Coupling of 2,2-Diarylacetonitriles and (Hetero)arenes. <i>Angewandte Chemie</i> , 2020, 132, 3077-3081.	1.6	9

#	ARTICLE	IF	CITATIONS
368	Isothiourea-Catalyzed Atropselective Acylation of Biaryl Phenols via Sequential Desymmetrization/Kinetic Resolution. <i>Angewandte Chemie</i> , 2020, 132, 7971-7979.	1.6	13
369	Construction of three stereocenters via hydrogenative desymmetrization of 2,2,5-trisubstituted cyclohexane-1,3-diones. <i>Science China Chemistry</i> , 2021, 64, 232-237.	4.2	10
370	The Discovery of Multifunctional Chiral P Ligands for the Catalytic Construction of Quaternary Carbon/Silicon and Multiple Stereogenic Centers. <i>Accounts of Chemical Research</i> , 2021, 54, 452-470.	7.6	67
371	Copper-Catalyzed Decarboxylative [3 + 2] Annulation of Ethynylethylene Carbonates with Azlactones: Access to $\beta$ -Butyrolactones Bearing Two Vicinal Quaternary Carbon Centers. <i>Journal of Organic Chemistry</i> , 2021, 86, 1779-1788.	1.7	24
372	Enantio- and diastereoselective diarylmethylation of 1,3-dicarbonyl compounds. <i>Chemical Science</i> , 2020, 11, 5969-5973.	3.7	13
373	Ni-Catalyzed Enantioconvergent Coupling of Epoxides with Alkenylboronic Acids: Construction of Oxindoles Bearing Quaternary Carbons. <i>CCS Chemistry</i> , 2020, 2, 623-631.	4.6	21
374	Palladium-Catalyzed Carbene Coupling Reactions of Cyclobutanone <i>N</i> -Sulfonylhydrazones. <i>Organic Letters</i> , 2021, 23, 8348-8352.	2.4	16
375	Asymmetric dearomatization catalysed by chiral Brønsted acids via activation of ynamides. <i>Nature Chemistry</i> , 2021, 13, 1093-1100.	6.6	77
376	Convenient preparation of synthetically useful chiral quaternary carbon-containing bicyclic compounds with organocatalysts. <i>Tetrahedron Letters</i> , 2021, 85, 153495.	0.7	3
377	Asymmetric Bromoaminocyclization and Desymmetrization of Cyclohexa-1,4-dienes through Anion Phase-Transfer Catalysis. <i>Organic Letters</i> , 2021, 23, 8153-8157.	2.4	11
378	A Radical Addition/Cyclization and Se-C Group Transfer Strategy for the Facile Synthesis of Se-Containing Cyclopentenones under Metal-Free and Peroxide-Free Conditions. <i>Chemistry - A European Journal</i> , 2021, 27, 17765.	1.7	2
379	Group-Selective Approaches to Complex Natural Product Synthesis: Three Examples of Diastereotopos-Selective Reactions. <i>Synlett</i> , 2022, 33, 429-439.	1.0	5
380	Selective Monoprotection of Symmetrical Diols in a Flow Reactor. <i>International Journal of Organic Chemistry</i> , 2018, 08, 264-271.	0.3	0
381	Regiodivergent synthesis of aza-quaternary carbon derivatives from pyrazolinone ketimines and 1,2-dihydroquinolines. <i>Tetrahedron Letters</i> , 2020, 61, 152055.	0.7	1
382	Highly enantioselective construction of CF <sub>3</sub> -bearing all-carbon quaternary stereocenters: Chiral spiro-fused bisoxazoline ligands with 1,1'-binaphthyl sidearm for asymmetric Michael-type Friedel-Crafts reaction. <i>Chinese Chemical Letters</i> , 2022, 33, 2415-2419.	4.8	7
383	Chiral Pool Guided Syntheses of Polycyclic Natural Products. <i>Chinese Journal of Chemistry</i> , 2022, 40, 407.	2.6	6
384	Organocatalytic enantioselective S <sub>N</sub> 1-type dehydrative nucleophilic substitution: access to bis(indolyl)methanes bearing quaternary carbon stereocenters. <i>Chemical Science</i> , 2021, 13, 170-177.	3.7	28
385	Gold self-relay catalysis for accessing functionalized cyclopentenones bearing an all-carbon quaternary stereocenter. <i>Organic Chemistry Frontiers</i> , 2021, 9, 140-146.	2.3	12

#	ARTICLE	IF	CITATIONS
386	Enantioselective Desymmetrization of 3-Substituted Oxetanes: An Efficient Access to Chiral 3,4-Dihydro-2 <i>H</i> -1,4-benzoxazines. <i>Organic Letters</i> , 2021, 23, 9376-9381.	2.4	18
387	Recent Advances in the Synthesis of Difluorinated Architectures from Trifluoromethyl Groups. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 234-267.	2.1	84
388	Rhodium-catalyzed intermolecular enantioselective Alder-ene type reaction of cyclopentenes with silylacetylenes. <i>Nature Communications</i> , 2021, 12, 6627.	5.8	16
389	Chiral Phosphoric Acid Catalyzed Desymmetrization of Cyclopentendiones via Friedel-Crafts Conjugate Addition of Indolizines. <i>Organic Letters</i> , 2021, 23, 9548-9553.	2.4	17
390	Skeletal remodeling of chalcone-based pyridinium salts to access isoindoline polycycles and their bridged derivatives. <i>Chemical Science</i> , 2021, 12, 15389-15398.	3.7	35
391	Distal Ionic Substrate-Catalyst Interactions Enable Long-Range Stereocontrol: Access to Remote Quaternary Stereocenters through a Desymmetrizing Suzuki-Miyaura Reaction. <i>Journal of the American Chemical Society</i> , 2022, 144, 123-129.	6.6	33
392	Coordination-assisted, transition-metal-catalyzed enantioselective desymmetric C-H functionalization. <i>Organic Chemistry Frontiers</i> , 2022, 9, 1458-1484.	2.3	30
393	Recent advances towards organocatalytic enantioselective desymmetrizing reactions. <i>Trends in Chemistry</i> , 2022, 4, 191-205.	4.4	23
394	Synthesis of Axially Chiral Aldehydes by N-Heterocyclic Carbene-Catalyzed Desymmetrization Followed by Kinetic Resolution. <i>Angewandte Chemie</i> , , .	1.6	6
395	Synthesis of Axially Chiral Aldehydes by N-Heterocyclic Carbene-Catalyzed Desymmetrization Followed by Kinetic Resolution. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	39
396	Diastereoselective Formation of Quaternary Stereocenters in Imidazole N-Oxide Cycloaddition with Fluoroalkenes. <i>Catalysts</i> , 2022, 12, 177.	1.6	0
397	Catalytic Enantioselective Birch-Heck Sequence for the Synthesis of Phenanthridinone Derivatives with an All-Carbon Quaternary Stereocenter. <i>Journal of Organic Chemistry</i> , 2022, 87, 1154-1172.	1.7	1
398	Hydroelementation of diynes. <i>Chemical Society Reviews</i> , 2022, 51, 869-994.	18.7	38
399	Synthesis of pyranopyrazoles with a chiral quaternary carbon stereocenter <i>via</i> copper-catalyzed enantioselective [3 + 3] cycloaddition. <i>Chemical Communications</i> , 2022, 58, 2850-2853.	2.2	14
400	Enantioselective desymmetrization reactions in asymmetric catalysis. <i>Tetrahedron</i> , 2022, 106-107, 132629.	1.0	40
401	Enantiocontrol over Acyclic Quaternary Stereocenters by Acylative Organocatalyzed Kinetic Resolution. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	0
402	A New Organocatalytic Desymmetrization Reaction Enables the Enantioselective Total Synthesis of Madangamine E. <i>Journal of the American Chemical Society</i> , 2022, 144, 1407-1415.	6.6	15
403	Vinylcyclopropane [3+2] Cycloaddition with Acetylenic Sulfones Based on Visible Light Photocatalysis**. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	10

#	ARTICLE	IF	CITATIONS
404	Chiral Selenide/Achiral Sulfonic Acid Cocatalyzed Atroposelective Sulfonylation of Biaryl Phenols via a Desymmetrization/Kinetic Resolution Sequence. <i>Journal of the American Chemical Society</i> , 2022, 144, 2943-2952.	6.6	26
405	Rhodium-Catalyzed Desymmetric Arylation of $\beta,\beta$ -Disubstituted Cyclohexadienones: Asymmetric Synthesis of Chiral All-Carbon Quaternary Centers. <i>Organic Letters</i> , 2022, 24, 1556-1560.	2.4	8
406	Pd-Catalyzed Asymmetric Dearomative Arylation of Indoles via a Desymmetrization Strategy. <i>Organic Letters</i> , 2022, 24, 1481-1485.	2.4	13
407	Enantioselective Cu(I)-catalyzed borylative cyclization of enone-tethered cyclohexadienones and mechanistic insights. <i>Nature Communications</i> , 2022, 13, 854.	5.8	12
408	Silver-Catalyzed Asymmetric Desymmetrization of Cyclohexadienones via Van Leusen Pyrrole Synthesis. <i>Organic Letters</i> , 2022, 24, 1812-1816.	2.4	13
409	A Three-Step Process to Facilitate the Enantioselective Assembly of <i>Cis</i> -Fused Octahydrophenanthrenes with a Quaternary Stereocenter. <i>Organic Letters</i> , 2022, 24, 2590-2595.	2.4	6
410	Non-enzymatic catalytic asymmetric cyanation of acylsilanes. <i>Communications Chemistry</i> , 2022, 5, .	2.0	3
411	Local desymmetrization as an engine of stereochemical elaboration in total synthesis. <i>Tetrahedron Letters</i> , 2022, 97, 153776.	0.7	4
412	Iridium-Catalyzed Regiodivergent and Enantioselective Hydroalkynylation of Unactivated 1,1-Disubstituted Alkenes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	6
413	Asymmetric Redox Allylic Alkylation to Access 3,3-Disubstituted Oxindoles Enabled by Ni/NHC Cooperative Catalysis. <i>Angewandte Chemie</i> , 0, , .	1.6	2
414	Synthesis of Chiral Endocyclic Allenes by Palladium-Catalyzed Asymmetric Annulation Followed by Cope Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	20
415	Iridium-Catalyzed Regiodivergent and Enantioselective Hydroalkynylation of Unactivated 1,1-Disubstituted Alkenes. <i>Angewandte Chemie</i> , 0, , .	1.6	0
416	Enantioselective Nickel-Catalyzed Reductive Aryl/Alkenyl-Cyano Cyclization Coupling to All-Carbon Quaternary Stereocenters. <i>Journal of the American Chemical Society</i> , 2022, 144, 4776-4782.	6.6	23
417	Catalytic Desymmetric Dicarbofunctionalization of Unactivated Alkenes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	24
418	Asymmetric Redox Allylic Alkylation to Access 3,3-Disubstituted Oxindoles Enabled by Ni/NHC Cooperative Catalysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	30
419	Synthesis of Chiral Endocyclic Allenes by Palladium-Catalyzed Asymmetric Annulation Followed by Cope Rearrangement. <i>Angewandte Chemie</i> , 0, , .	1.6	4
420	Catalytic Asymmetric Decarboxylative Michael Addition To Construct an All-Carbon Quaternary Center with 3-Alkenyl-oxindoles. <i>Organic Letters</i> , 2022, 24, 2585-2589.	2.4	6
421	Construction of Chiral Quaternary Carbon Stereocenters by Asymmetric Michael Addition of 4-Amido-5-hydroxypyrazoles to Ethylene Sulfonyl Fluoride. <i>Asian Journal of Organic Chemistry</i> , 0, , .	1.3	2

#	ARTICLE	IF	CITATIONS
422	Catalytic Desymmetric Dicarbofunctionalization of Unactivated Alkenes. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
423	Desymmetric Partial Reduction of Malonic Esters. <i>Journal of the American Chemical Society</i> , 2022, 144, 6918-6927.	6.6	17
424	Gold-Catalyzed Desymmetric Lactonization of Alkynylmalonic Acids Enabled by Chiral Bifunctional P,N ligands. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	1
425	Palladium-Catalyzed Asymmetric [3 + 2] Annulation of Vinylethylene Carbonates with Alkenes Installed on Cyclic <i>N</i> -Sulfonyl Imines: Highly Enantio- and Diastereoselective Construction of Chiral Tetrahydrofuran Scaffolds Bearing Three Vicinal and Quaternary Stereocenters. <i>Journal of Organic Chemistry</i> , 2022, 87, 5166-5177.	1.7	9
426	Gold-Catalyzed Desymmetric Lactonization of Alkynylmalonic Acids Enabled by Chiral Bifunctional P,N ligands. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	7
427	Absence of Intermediates in the BINOL-Derived Mg(II)/Phosphate-Catalyzed Desymmetrization of Ring Expansion of 1-Vinylcyclobutanols. <i>Journal of Organic Chemistry</i> , 2022, 87, 693-707.	1.7	11
428	Enantioselective Ni/N-Heterocyclic Carbene-Catalyzed Redox-Economical Coupling of Aldehydes, Alkynes, and Enones for Rapid Construction of Acyclic All-Carbon Quaternary Stereocenters. <i>Journal of the American Chemical Society</i> , 2022, 144, 130-136.	6.6	24
429	Four-Component Reaction Access to Nitrile-Substituted All-Carbon Quaternary Centers. <i>Journal of Organic Chemistry</i> , 2022, 87, 66-75.	1.7	4
430	Desymmetrisation of <i>meso</i> -2,4-Dimethyl-8-oxabicyclo[3.2.1]octane-3-ol and its Application in Natural Product Syntheses. <i>Chemical Record</i> , 2022, 22, .	2.9	0
431	Metal-catalyzed reactions of organic nitriles and boronic acids to access diverse functionality. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 4243-4277.	1.5	21
432	Catalytic Enantioselective Construction of <i>4</i> Ring Junction All-Carbon Stereocenters and Mechanistic Insights. <i>Chinese Journal of Chemistry</i> , 2022, 40, 1767-1776.	2.6	15
433	Stereospecific Construction of Quaternary Carbon Stereocenters from Quaternary Carbon Stereocenters. <i>Journal of the American Chemical Society</i> , 2022, 144, 7066-7071.	6.6	16
434	Cu(I)-Catalyzed Asymmetric Arylation of Pyrroles with Diaryliodonium Salts toward the Synthesis of <i>N</i> -Atropisomers. <i>Organic Letters</i> , 2022, 24, 3138-3143.	2.4	38
435	Direct catalytic asymmetric vinylogous Michael addition to construct an all-carbon quaternary center with 3-alkenyl-oxindoles. <i>Organic Chemistry Frontiers</i> , 2022, 9, 3446-3451.	2.3	1
436	Radical 1,2,3-tricarbofunctionalization of $\alpha$ -vinyl- $\beta$ -ketoesters enabled by a carbon shift from an all-carbon quaternary center. <i>Chemical Science</i> , 2022, 13, 6836-6841.	3.7	13
437	Asymmetric Construction of All-Carbon Quaternary Stereocenters via Organocatalytic $\alpha$ -Hydroxymethylation of Malonic Diesters Using Aqueous Formaldehyde. <i>Asian Journal of Organic Chemistry</i> , 2022, 11, .	1.3	3
438	DBU-promoted synthesis of novel heterocyclic [4.3.3] propellanes from $\alpha$ -cyanoketones and cyclic $\beta$ -diketones. <i>Tetrahedron Letters</i> , 2022, 98, 153815.	0.7	2
439	Stereodivergent Synthesis of Epoxides and Oxazolidinones via the Halohydrin Dehalogenase-Catalyzed Desymmetrization Strategy. <i>ACS Catalysis</i> , 2022, 12, 6285-6293.	5.5	18

#	ARTICLE	IF	CITATIONS
440	Construction of boron-stereogenic compounds via enantioselective Cu-catalyzed desymmetric Bâ€“H bond insertion reaction. <i>Nature Communications</i> , 2022, 13, 2624.	5.8	15
441	Atropisomers beyond the Câ€“C axial chirality: Advances in catalytic asymmetric synthesis. <i>CheM</i> , 2022, 8, 1855-1893.	5.8	149
442	Metal-free dearomatization reactions of naphthol-ynamides for the divergent and enantioselective synthesis of azaspirocycles. <i>Organic Chemistry Frontiers</i> , 2022, 9, 3709-3717.	2.3	8
443	Cooperative Rh(II)/Pd(0) Dualâ€“Catalyzed <i>gemâ€“</i>Difunctionalization of Î±â€“Diazo Carbonyl Compounds: Construction of Quaternary Carbon Centers. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	6
444	Model Synthetic Study of Tutin, a Picrotoxane-Type Sesquiterpene: Stereoselective Construction of a &lt;i>trans</i>-Fused 5,6-Ring Skeleton. <i>Chemical and Pharmaceutical Bulletin</i> , 2022, 70, 435-442.	0.6	1
445	Synthesis of Highly Congested Tertiary Alcohols via the [3,3] Radical Deconstruction of Breslow Intermediates. <i>Organic Letters</i> , 2022, 24, 4275-4280.	2.4	3
446	Regioselective Boracarboxylation of Î±-Substituted Vinyl Arenes. <i>Organometallics</i> , 2022, 41, 1883-1891.	1.1	3
447	Copper(I)-Catalyzed Synthesis of Unsymmetrical All-Carbon Bis-Quaternary Centers at the Opposing Î±-Carbons of Cyclohexanones. <i>Organic Letters</i> , 2022, 24, 4810-4815.	2.4	1
448	Asymmetric Construction of Highly Functionalized Cyclobutanones Bearing Three Contiguous Stereogenic Centers by an Amino Acid Salt-Catalyzed Desymmetrization Reaction. <i>Synlett</i> , 0, , .	1.0	0
449	Fe-Catalyzed Selective Formal Insertion of Diazo Compounds into C(sp)â€“C(sp<sup>3</sup>)</i> Bonds of Propargyl Alcohols: Access to Alkyne-Substituted All-Carbon Quaternary Centers. <i>ACS Central Science</i> , 2022, 8, 1028-1034.	5.3	8
450	Organocatalytic Asymmetric Construction of Tetrasubstituted Carbon Stereocenters Bearing Three Heteroatoms via Intramolecular Cyclization of Vinylidene <i>ortho</i>-Quinone Methide with Imidates. <i>Organic Letters</i> , 2022, 24, 5073-5077.	2.4	4
451	Tandem Asymmetric Cycloaromatization/intramolecular Pictetâ€“Spenglerâ€“type Reaction. An Entry to Polycyclic Pyrroles. <i>Advanced Synthesis and Catalysis</i> , 0, , .	2.1	0
452	<sup>Palladiumâ€“Catalyzed</sup> Intramolecular Dehydrogenative Arylboration of Alkenes. <i>Chinese Journal of Chemistry</i> , 2022, 40, 2437-2444.	2.6	7
453	Desymmetric Cyanosilylation of Acyclic 1,3â€“Diketones. <i>Angewandte Chemie</i> , 0, , .	1.6	0
454	Catalytic Enantioselective Desymmetrization of meso-Cyclopropane Fused Cyclohexene-1,4-diones via Formal C(sp <sup>2</sup> )â€“H Alkylation. <i>Synlett</i> , 0, , .	1.0	0
455	Asymmetric Synthesis of Structurally Sophisticated Spirocyclic Pyrano[2,3- <i>c</i> ]pyrazole Derivatives Bearing a Chiral Quaternary Carbon Center. <i>Organic Letters</i> , 2022, 24, 5474-5479.	2.4	11
456	Indane-Based Chiral Aryl Chalcogenide Catalysts: Development and Applications in Asymmetric Electrophilic Reactions. <i>Accounts of Chemical Research</i> , 2022, 55, 2439-2453.	7.6	32
457	Highly Enantioselective Three-Component Povarov Reaction for Direct Construction of Azaspirocycles. <i>Organic Letters</i> , 2022, 24, 6397-6401.	2.4	6



#	ARTICLE	IF	CITATIONS
458	Desymmetric Cyanosilylation of Acyclic 1,3-Diketones. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	7
459	N-Heterocyclic Carbene-Catalyzed [3 + 2] Annulation of 3,3-Bisoxindoles with $\alpha$ -Bromoaldehydes: Enantioselective Construction of Contiguous Quaternary Stereocenters. <i>Organic Letters</i> , 2022, 24, 5929-5934.	2.4	6
460	N-Heterocyclic Carbene (NHC)-Catalyzed Desymmetrization of Biaryldialdehydes to Construct Axially Chiral Aldehydes. <i>Chinese Journal of Organic Chemistry</i> , 2022, 42, 2504.	0.6	7
461	Directed evolution of an alcohol dehydrogenase for the desymmetric reduction of 2,2-disubstituted cyclopenta-1,3-diones by enzymatic hydrogen transfer. <i>Catalysis Science and Technology</i> , 2022, 12, 5841-5849.	2.1	3
462	Palladium-catalyzed enantioselective domino ring-opening/Hiyama coupling of cyclobutanones: development and application to the synthesis of (+)-herbertene-1,14-diol. <i>Organic Chemistry Frontiers</i> , 2022, 9, 5798-5801.	2.3	5
463	Organocatalytic Access to Tetrasubstituted Chiral Carbons Integrating Functional Groups. <i>Chemical Record</i> , 0, , .	2.9	0
464	Mechanically planar chiral rotaxanes through catalytic desymmetrization. <i>CheM</i> , 2022, 8, 2843-2855.	5.8	22
465	Recent Progress on the [3+2] Cycloaddition Route for the Synthesis of All-Carbon Quaternary Stereocentres. <i>SynOpen</i> , 2022, 06, 270-285.	0.8	3
466	Catalytic Enantioselective Desymmetrization of Prochiral Triacylamines via Pseudopeptidic Guanidine-Guanidinium Catalysis. <i>Organic Letters</i> , 2022, 24, 6851-6856.	2.4	0
467	Palladium-Catalyzed Transient Chirality Transfer and Atroposelective C-H Functionalization to Access Quaternary Stereocenters. <i>Angewandte Chemie</i> , 0, , .	1.6	1
468	Palladium-Catalyzed Transient Chirality Transfer and Atroposelective C-H Functionalization to Access Quaternary Stereocenters. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	3
469	Synthesis of $\alpha,\beta$ -unsaturated ketones with quaternary centers through regioselective hydroacylation of allenes with acyl chlorides. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 1307-1311.	1.0	2
470	Asymmetric Three-Component Reaction to Assemble the Acyclic All-Carbon Quaternary Stereocenter via Visible Light and Phosphoric Acid Catalysis. <i>ACS Catalysis</i> , 2022, 12, 13282-13291.	5.5	13
471	Total Synthesis of Spiro[cyclohexane-indoline] Alkaloids: A Regio- and Diastereoselective Spirocyclization Approach. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	0
472	Total Synthesis of Spiro[cyclohexane-indoline] Alkaloids: A Regio- and Diastereoselective Spirocyclization Approach. <i>Angewandte Chemie</i> , 0, , .	1.6	0
473	Efficient Synthesis of Diaryl Quaternary Centers by Rh(II)/Xantphos Catalyzed Relay C-H Functionalization and Allylic Alkylation. <i>Chemistry - A European Journal</i> , 2023, 29, .	1.7	8
474	CuH-Catalyzed Enantioselective Desymmetrization of Cyclic 1,3-Diketones. <i>Organic Letters</i> , 2022, 24, 8233-8238.	2.4	3
475	[2+2+2] Cycloaddition of nitriles to enantioenriched and highly substituted pyridines. <i>Chem Catalysis</i> , 2022, 2, 2889-2897.	2.9	4

#	ARTICLE	IF	CITATIONS
476	Dirhodium/Xantphos-Catalyzed Tandem C-H Functionalization/Allylic Alkylation: Direct Access to 3-Acyl-3-allyl Oxindole Derivatives from <i>N</i> -Aryl- $\alpha$ -diazo- $\beta$ -keto Amides. Chinese Journal of Organic Chemistry, 2022, 42, 3390.	0.6	5
477	Application of Chiral Lewis Base/Brønsted Acid Synergistic Catalysis Strategy in Enantioselective Synthesis of Organic Sulfides. Chinese Journal of Organic Chemistry, 2022, 42, 3015.	0.6	6
478	Taming Chiral Quaternary Stereocenters via Remote $\sigma$ -Bonding Stereoinduction in Palladium-Catalyzed (3+2) Cycloadditions. Angewandte Chemie - International Edition, 2023, 62, .	7.2	9
479	Selective Construction of All-Carbon Quaternary Centers via Relay Catalysis of Indole C-H Functionalization/Allylic Alkylation. Organic Letters, 2022, 24, 8423-8428.	2.4	9
480	Construction of enantioenriched eight-membered lactones via Pd-catalyzed asymmetric (6+2) dipolar annulation. Science China Chemistry, 2022, 65, 2437-2443.	4.2	8
481	Fundamentals of chirality, resolution, and enantiopure molecule synthesis methods. Chirality, 2023, 35, 4-28.	1.3	4
482	Enantioselective Synthesis of Quaternary Oxindoles: Desymmetrizing Staudinger-Aza-Wittig Reaction Enabled by a Bespoke HypPhos Oxide Catalyst. Journal of the American Chemical Society, 2022, 144, 21318-21327.	6.6	6
483	Remote Enantioselective Desymmetrization of 9,9-Disubstituted 9,10-Dihydroacridines through Asymmetric Aromatic Aminations. ACS Catalysis, 2022, 12, 14609-14618.	5.5	11
484	Taming Chiral Quaternary Stereocenters via Remote $\sigma$ -Bonding Stereoinduction in Palladium-Catalyzed (3+2) Cycloadditions. Angewandte Chemie, 0, , .	1.6	1
485	Catalytic enantioselective desymmetrization of <i>meso</i> -aziridines. Organic and Biomolecular Chemistry, 2023, 21, 465-478.	1.5	2
486	Cu-catalyzed reductive aminomethylation of 1,3-dienes with <i>N</i> , <i>O</i> -acetals: facile construction of $\beta$ -chiral amines with quaternary stereocenters. Organic Chemistry Frontiers, 2023, 10, 467-472.	2.3	5
487	Parallel Kinetic Resolution through Palladium-Catalyzed Enantioselective Cycloimidoylation: En Route to Divergent <i>N</i> -Heterocycles Bearing a Quaternary Stereogenic Center. ACS Catalysis, 2022, 12, 14918-14925.	5.5	2
488	Two Green Protocols for Halogenative Semipinacol Rearrangement. Journal of Organic Chemistry, 2023, 88, 504-512.	1.7	5
489	The Asymmetric Buchwald-Hartwig Amination Reaction. Angewandte Chemie - International Edition, 2023, 62, .	7.2	25
490	Substrate specific ring opening annulations of donor-acceptor cyclopropanes with 3-phenacylidene-2-oxindoles. Tetrahedron, 2022, , 133202.	1.0	1
491	Enantioselective Michael Addition/Cyclization/Desymmetrization Sequence of Prochiral Cyclic Hemiacetals and Nitroolefins: Synthesis of Chiral Oxygen-Bridged Bicyclic Compounds. Organic Letters, 2022, 24, 9254-9258.	2.4	1
492	Site-Selective C-H Allylation of Alkanes: Facile Access to Allylic Quaternary $sp^3$ -Carbon Centers. Angewandte Chemie, 2023, 135, .	1.6	2
493	Synthetic study toward tridachiapyrone B. Beilstein Journal of Organic Chemistry, 0, 18, 1741-1748.	1.3	1

#	ARTICLE	IF	CITATIONS
494	Site-selective C <sup>3</sup> H Allylation of Alkanes: Facile Access to Allylic Quaternary sp <sup>3</sup> Carbon Centers. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	11
495	The Asymmetric Buchwald-Hartwig Amination Reaction. <i>Angewandte Chemie</i> , 0, , .	1.6	0
496	Rapid Construction of Tricyclic Furanobenzodihydropyrans by Asymmetric Tandem Reaction. <i>Journal of Organic Chemistry</i> , 2023, 88, 1815-1827.	1.7	3
497	Pd-Catalyzed Umpolung of $\beta$ -Benzylpalladium Enabled the Construction of All-Carbon Vinyl Quaternary Aldehydes. <i>Advanced Synthesis and Catalysis</i> , 0, , .	2.1	0
498	Highly Enantioselective Construction of Multifunctional Silicon-Stereogenic Silacycles by Asymmetric Enamine Catalysis. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	0
499	Highly Enantioselective Construction of Multifunctional Silicon-Stereogenic Silacycles by Asymmetric Enamine Catalysis. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	9
500	Nickel-Catalyzed Ligand-Controlled Selective Reductive Cyclization/Cross-Couplings. <i>Accounts of Chemical Research</i> , 2023, 56, 515-535.	7.6	39
501	Selective C <sup>3</sup> H Allylation of Alkanes. <i>Chinese Journal of Organic Chemistry</i> , 2023, 43, 359.	0.6	0
502	Organocatalyzed enantio- and diastereoselective isomerization of prochiral 1,3-cyclohexanediones into nonalactones bearing distant stereocenters. <i>Chemical Science</i> , 0, , .	3.7	0
503	Copper (I) Chloride-Catalyzed Photoredox Synthesis of Multifunctionalized Compounds at Room Temperature and Their Antifungal Activities. <i>Chemistry - A European Journal</i> , 2023, 29, .	1.7	3
504	Simultaneous Dual Cu/Ir Catalysis: Stereodivergent Synthesis of Chiral $\beta$ -Lactams with Adjacent Tertiary/Quaternary/Tertiary Stereocenters. <i>ACS Catalysis</i> , 2023, 13, 2555-2564.	5.5	13
505	Catalytic Asymmetric Synthesis of Axially Chiral Diaryl Ethers through Enantioselective Desymmetrization. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	22
506	Catalytic Asymmetric Synthesis of Axially Chiral Diaryl Ethers through Enantioselective Desymmetrization. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	5
507	Zinc-catalyzed desymmetric hydrosilylation of monosubstituted malonic esters. <i>Organic Chemistry Frontiers</i> , 2023, 10, 1675-1679.	2.3	1
508	Site-selective and stereoselective transformations on <i>p</i> -quinols & <i>p</i> -quinamines. <i>Chemical Communications</i> , 2023, 59, 3795-3811.	2.2	4
509	Total Synthesis of (+)-Coriamyrtin via a Desymmetrizing Strategy Involving a 1,3-Cyclopentanedione Moiety. <i>Organic Letters</i> , 0, , .	2.4	1
510	Cu(I)-Catalyzed Chemo- and Enantioselective Desymmetrizing C=O Bond Coupling of Acyl Radicals. <i>Journal of the American Chemical Society</i> , 2023, 145, 6535-6545.	6.6	10
511	Construction of Acyclic All-Carbon Quaternary Stereocenters and 1,3-Nonadjacent Stereocenters via Organo/Metal Dual Catalyzed Asymmetric Allenylic Substitution of Aldehydes. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	1

#	ARTICLE	IF	CITATIONS
512	Construction of Acyclic All-Carbon Quaternary Stereocenters and 1,3-Nonadjacent Stereocenters via Organo/Metal Dual Catalyzed Asymmetric Allenylic Substitution of Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	8
513	Enantioselective Nickel-Catalyzed Reductive <i>anti</i> -Arylative Annulation of Alkyne-Tethered Malononitriles to Construct Quaternary Stereocenters. <i>Organic Letters</i> , 2023, 25, 1811-1816.	2.4	3
514	Construction of Chiral Cyclobutanone-Fused 4-Aminoquinolines via Sequential Chiral Phosphoric Acid and Palladium Catalysis. <i>Journal of Organic Chemistry</i> , 2023, 88, 4627-4632.	1.7	3
515	Desymmetric Reductive Amination of 1,3-Cyclopentadiones to Single Stereoisomer of $\beta$ -Amino Ketones with an All-Carbon Quaternary Stereocenter by Engineered Amine Dehydrogenases. <i>ACS Catalysis</i> , 2023, 13, 5053-5061.	5.5	5
516	Asymmetric Synthesis of 3-Lactone-Substituted 2-Oxindoles with Vicinal Quaternary Carbon Centers through Vinylogous Conjugate Addition. <i>Synlett</i> , 2023, 34, 2405-2410.	1.0	2
517	Synthesis of Chiral 1,1,1-Trifluoro- <i>trans</i> -disubstituted 2,4-Diketones via Palladium-Catalyzed Asymmetric Allylation. <i>Organic Letters</i> , 2023, 25, 2388-2393.	2.4	3
518	Synthesis of a <i>C</i> -Symmetric Chiral Borinic Acid and Its Application in Catalytic Desymmetrization of 2,2-Disubstituted-1,3-Propanediols. <i>Journal of the American Chemical Society</i> , 0, , .	6.6	6
519	Asymmetric Organocatalyzed Intermolecular Functionalization of Cyclohexanone-Derived Dienones. <i>Chemical Record</i> , 2023, 23, .	2.9	3
520	Recent advances in the asymmetric catalytic construction of oxa-quaternary carbon centers. <i>Organic Chemistry Frontiers</i> , 0, , .	2.3	3
526	Finding activity through rigidity: syntheses of natural products containing tricyclic bridgehead carbon centers. <i>Natural Product Reports</i> , 2023, 40, 1393-1431.	5.2	2
535	2-Oxindole and related heterocycles: synthetic methodologies for their natural products and related derivatives. <i>RSC Advances</i> , 2023, 13, 14249-14267.	1.7	15
539	Copper-Catalyzed Enantioselective Desymmetric Protosilylation of Prochiral Dienes: Access to Optically Functionalized Tertiary Alcohols. <i>Organic Letters</i> , 2023, 25, 5242-5247.	2.4	0
544	Organic synthetic methodology-based new scaffolds in drug discovery. , 2023, , 543-564.		0
550	N-Heterocyclic carbene-catalyzed enantioselective (dynamic) kinetic resolutions and desymmetrizations. <i>Science China Chemistry</i> , 2024, 67, 482-511.	4.2	8
554	Catalytic desymmetrization reactions to synthesize all-carbon quaternary stereocenters. , 2023, 2, 1020-1036.		2
557	Recent advances in the construction of axially chiral arylpyrroles. <i>Science China Chemistry</i> , 2023, 66, 2480-2491.	4.2	9
565	Vinylogous propargylation of <i>trans</i> -dicyanoalkenes: construction of an all-carbon quaternary center. <i>New Journal of Chemistry</i> , 2023, 47, 21155-21158.	1.4	0