

Chao Zheng

List of Publications by Year in descending order

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99
papers

8,984
citations

50170

46
h-index

42291

92
g-index

107
all docs

107
docs citations

107
times ranked

4491
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition-Metal-Catalyzed Asymmetric Allylic Dearomatization Reactions. <i>Accounts of Chemical Research</i> , 2014, 47, 2558-2573.	7.6	699
2	Iridium-Catalyzed Asymmetric Allylic Substitution Reactions. <i>Chemical Reviews</i> , 2019, 119, 1855-1969.	23.0	547
3	Recent development of direct asymmetric functionalization of inert C-H bonds. <i>RSC Advances</i> , 2014, 4, 6173.	1.7	532
4	Transfer hydrogenation with Hantzsch esters and related organic hydride donors. <i>Chemical Society Reviews</i> , 2012, 41, 2498.	18.7	521
5	Catalytic Asymmetric Dearomatization by Transition-Metal Catalysis: A Method for Transformations of Aromatic Compounds. <i>CheM</i> , 2016, 1, 830-857.	5.8	446
6	Synthesis and Application of Chiral Spiro Cp Ligands in Rhodium-Catalyzed Asymmetric Oxidative Coupling of Biaryl Compounds with Alkenes. <i>Journal of the American Chemical Society</i> , 2016, 138, 5242-5245.	6.6	339
7	Asymmetric Dearomatization of Naphthols via a Rh-Catalyzed C(sp ²)-H Functionalization/Annulation Reaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 4880-4883.	6.6	293
8	Catalytic asymmetric dearomatization (CADA) reaction-enabled total synthesis of indole-based natural products. <i>Natural Product Reports</i> , 2019, 36, 1589-1605.	5.2	255
9	Synthesis of Planar Chiral Ferrocenes via Transition-Metal-Catalyzed Direct C-H Bond Functionalization. <i>Accounts of Chemical Research</i> , 2017, 50, 351-365.	7.6	254
10	Chiral phosphoric acid-catalyzed asymmetric dearomatization reactions. <i>Chemical Society Reviews</i> , 2020, 49, 286-300.	18.7	247
11	Enantioselective Synthesis of Spiro Cyclopentane-1,3-indoles and 2,3,4,9-tetrahydrocarbazoles by Iridium-Catalyzed Allylic Dearomatization and Stereospecific Migration. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1680-1683.	7.2	245
12	Desymmetrization of Cyclohexadienones via Brønsted Acid-Catalyzed Enantioselective Oxo-Michael Reaction. <i>Journal of the American Chemical Society</i> , 2010, 132, 4056-4057.	6.6	244
13	Advances in Catalytic Asymmetric Dearomatization. <i>ACS Central Science</i> , 2021, 7, 432-444.	5.3	203
14	Iridium-Catalyzed Allylic Alkylation Reaction with N-Aryl Phosphoramidite Ligands: Scope and Mechanistic Studies. <i>Journal of the American Chemical Society</i> , 2012, 134, 4812-4821.	6.6	182
15	Synthesis of Cyclobutane-Fused Angular Tetracyclic Spiroindolines via Visible-Light-Promoted Intramolecular Dearomatization of Indole Derivatives. <i>Journal of the American Chemical Society</i> , 2019, 141, 2636-2644.	6.6	177
16	Asymmetric Synthesis of Spiropyrazolones by Rhodium-Catalyzed C(sp ²)-H Functionalization/Annulation Reactions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4540-4544.	7.2	161
17	Dearomatization through Halofunctionalization Reactions. <i>Chemistry - A European Journal</i> , 2016, 22, 11918-11933.	1.7	135
18	Rhodium-Catalyzed Atroposelective Oxidative C-H/C-H Cross-Coupling Reaction of 1-Aryl Isoquinoline Derivatives with Electron-Rich Heteroarenes. <i>Journal of the American Chemical Society</i> , 2020, 142, 15678-15685.	6.6	126

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19	Iridium-catalyzed <i>Z</i> -retentive asymmetric allylic substitution reactions. <i>Science</i> , 2021, 371, 380-386.	6.0	125
20	Cu ^{II} /TEMPO-catalyzed Enantioselective C(sp ³)-H Alkynylation of Tertiary Cyclic Amines through Shono-type Oxidation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15254-15259.	7.2	109
21	Exploring the Chemistry of Spiroindolenines by Mechanistically-Driven Reaction Development: Asymmetric Pictet-Spengler-type Reactions and Beyond. <i>Accounts of Chemical Research</i> , 2020, 53, 974-987.	7.6	105
22	Iridium-catalyzed Asymmetric Allylic Dearomatization by a Desymmetrization Strategy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15093-15097.	7.2	99
23	Asymmetric Dearomatization of β -Naphthols through a Bifunctional Thiourea-catalyzed Michael Reaction. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14929-14932.	7.2	98
24	Enantioselective dearomative prenylation of indole derivatives. <i>Nature Catalysis</i> , 2018, 1, 601-608.	16.1	94
25	Iridium-catalyzed Intermolecular Asymmetric Dearomatization of β -Naphthols with Allyl Alcohols or Allyl Ethers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3237-3241.	7.2	92
26	Construction of Chiral Tetrahydro β -Carbolines: Asymmetric Pictet-Spengler Reaction of Indolyl Dihydropyridines. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7440-7443.	7.2	84
27	Sequence-Dependent Stereodivergent Allylic Alkylation/Fluorination of Acyclic Ketones. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2039-2043.	7.2	84
28	Enantioselective Synthesis of Azoniahelicenes by Rh-Catalyzed C-H Annulation with Alkynes. <i>Journal of the American Chemical Society</i> , 2021, 143, 114-120.	6.6	81
29	Highly efficient synthesis and stereoselective migration reactions of chiral five-membered aza-spiroindolenines: scope and mechanistic understanding. <i>Chemical Science</i> , 2016, 7, 4453-4459.	3.7	80
30	A Combined Theoretical and Experimental Investigation into the Highly Stereoselective Migration of Spiroindolenines. <i>Journal of Organic Chemistry</i> , 2013, 78, 4357-4365.	1.7	71
31	Catalytic C6 Functionalization of 2,3-Disubstituted Indoles by Scandium Triflate. <i>Journal of Organic Chemistry</i> , 2014, 79, 1047-1054.	1.7	71
32	Time-dependent enantiodivergent synthesis via sequential kinetic resolution. <i>Nature Chemistry</i> , 2020, 12, 838-844.	6.6	67
33	Asymmetric synthesis of syn-propargylamines and unsaturated β -amino acids under Brønsted base catalysis. <i>Nature Communications</i> , 2015, 6, 8544.	5.8	65
34	Unified Mechanistic Understandings of Pictet-Spengler Reactions. <i>Chem</i> , 2018, 4, 1952-1966.	5.8	65
35	Pd-catalyzed Regio- and Enantioselective Oxidative C [~] H/C [~] H Cross-Coupling Reaction between Ferrocenes and Azoles. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2149-2153.	7.2	65
36	Mechanistic Insights into the Pd-Catalyzed Intermolecular Asymmetric Allylic Dearomatization of Multisubstituted Pyrroles: Understanding the Remarkable Regio- and Enantioselectivity. <i>Journal of the American Chemical Society</i> , 2014, 136, 16251-16259.	6.6	64

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37	Pd-Catalyzed Highly Enantioselective Synthesis of Planar Chiral Ferrocenylpyridine Derivatives. <i>Organometallics</i> , 2015, 34, 4618-4625.	1.1	64
38	A DFT Study on Rh-Catalyzed Asymmetric Dearomatization of 2-Naphthols Initiated with C-H Activation: A Refined Reaction Mechanism and Origins of Multiple Selectivity. <i>ACS Catalysis</i> , 2016, 6, 262-271.	5.5	63
39	Catalytic Asymmetric Dearomatization of Indolyl Dihydropyridines through an Enamine Isomerization/Spirocyclization/Transfer Hydrogenation Sequence. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2653-2656.	7.2	59
40	Iridium-Catalyzed Intramolecular Asymmetric Allylic Alkylation of Hydroxyquinolines: Simultaneous Weakening of the Aromaticity of Two Consecutive Aromatic Rings. <i>Journal of the American Chemical Society</i> , 2018, 140, 3114-3119.	6.6	58
41	Chiral Brønsted Acid Catalyzed Enantioselective aza-Friedel-Crafts Reaction of Cyclic β -Diaryl α -Acyl Imines with Indoles. <i>Journal of Organic Chemistry</i> , 2017, 82, 8752-8760.	1.7	54
42	Pd-Catalyzed Regio- and Enantioselective Oxidative C-H/C-H Cross-Coupling Reaction between Ferrocenes and Azoles. <i>Angewandte Chemie</i> , 2019, 131, 2171-2175.	1.6	52
43	Highly Diastereo- and Enantioselective Synthesis of Quinuclidine Derivatives by an Iridium-Catalyzed Intramolecular Allylic Dearomatization Reaction. <i>CCS Chemistry</i> , 0, , 106-116.	4.6	52
44	Visible-Light-Induced Dearomatization via [2+2] Cycloaddition or 1,5-Hydrogen Atom Transfer: Divergent Reaction Pathways of Transient Diradicals. <i>ACS Catalysis</i> , 2020, 10, 12618-12626.	5.5	50
45	Visible-Light-Induced Dearomatization of Indoles/Pyrroles with Vinylcyclopropanes: Expedient Synthesis of Structurally Diverse Polycyclic Indolines/Pyrrolines. <i>Journal of the American Chemical Society</i> , 2021, 143, 13441-13449.	6.6	50
46	Iridium-Catalyzed Intramolecular Asymmetric Allylic Dearomatization Reaction of Benzoxazoles, Benzothiazoles, and Benzimidazoles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1530-1534.	7.2	49
47	Visible-Light-Mediated Synthesis of Cyclobutene-Fused Indolizidines and Related Structural Analogs. <i>CCS Chemistry</i> , 2021, 3, 652-664.	4.6	48
48	Chiral phosphoric acid catalyzed aminative dearomatization of β -naphthols/Michael addition sequence. <i>Nature Communications</i> , 2019, 10, 3150.	5.8	46
49	Iridium-Catalyzed Asymmetric Allylic Aromatization Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10493-10499.	7.2	44
50	Iridium-Catalyzed Enantioselective Intermolecular Indole C2-Allylation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7598-7604.	7.2	44
51	Visible-Light-Induced Intramolecular Double Dearomative Cycloaddition of Arenes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7036-7040.	7.2	44
52	Iridium-Catalyzed Enantioselective Synthesis of Pyrrole-Annulated Medium-Sized Ring Compounds. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10545-10548.	7.2	42
53	Palladium(0)-Catalyzed Intermolecular Asymmetric Allylic Dearomatization of Polycyclic Indoles. <i>Organic Letters</i> , 2018, 20, 748-751.	2.4	36
54	Enantioselective Synthesis of Arene cis-Dihydrodiols from 2-Pyrones. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14562-14567.	7.2	35

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55	Enantioselective Desymmetrization of Bisphenol Derivatives via Ir-Catalyzed Allylic Dearomatization. <i>Journal of the American Chemical Society</i> , 2020, 142, 19354-19359.	6.6	35
56	Cascade asymmetric dearomative cyclization reactions via transition-metal-catalysis. , 2022, 1, 203-216.		34
57	Catalytic Asymmetric Chlorinative Dearomatization Reaction of Benzofurans. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 2066-2071.	2.1	33
58	Silver-Catalyzed Asymmetric Dearomatization of Electron-Deficient Heteroarenes via Interrupted Barton-Zard Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19730-19734.	7.2	33
59	Pd-Catalyzed Dearomatization of Indole Derivatives <i>via</i> Intermolecular Heck Reactions. <i>Chinese Journal of Chemistry</i> , 2020, 38, 235-241.	2.6	32
60	Construction of Chiral Tetrahydro- β -Carbolines: Asymmetric Pictet-Spengler Reaction of Indolyl Dihydropyridines. <i>Angewandte Chemie</i> , 2017, 129, 7548-7551.	1.6	30
61	Sequence-Dependent Stereodivergent Allylic Alkylation/Fluorination of Acyclic Ketones. <i>Angewandte Chemie</i> , 2020, 132, 2055-2059.	1.6	29
62	Iridium-Catalyzed Intramolecular Asymmetric Allylic Dearomatization of Benzene Derivatives. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16190-16193.	7.2	27
63	Palladium-catalyzed dearomative 1,4-difunctionalization of naphthalenes. <i>Chemical Science</i> , 2020, 11, 6830-6835.	3.7	27
64	Ni-catalyzed enantioselective [2+2] cycloaddition of malononitriles with alkynes. <i>Chem</i> , 2021, 7, 799-811.	5.8	27
65	Enantioselective Synthesis of Medium-Sized-Ring Lactones via Iridium-Catalyzed <i>Z</i> -Retentive Asymmetric Allylic Substitution Reaction. <i>Journal of the American Chemical Society</i> , 2022, 144, 4770-4775.	6.6	27
66	Cu II /TEMPO-Catalyzed Enantioselective C(sp ³)-H Alkynylation of Tertiary Cyclic Amines through Shono-Type Oxidation. <i>Angewandte Chemie</i> , 2020, 132, 15366-15371.	1.6	26
67	Silver-Catalyzed Asymmetric Dearomatization of Electron-Deficient Heteroarenes via Interrupted Barton-Zard Reaction. <i>Angewandte Chemie</i> , 2021, 133, 19882-19886.	1.6	26
68	Iridium-Catalyzed Intermolecular Asymmetric Dearomatization of β -Naphthols with Allyl Alcohols or Allyl Ethers. <i>Angewandte Chemie</i> , 2017, 129, 3285-3289.	1.6	25
69	Iridium-Catalyzed Asymmetric Allylic Dearomatization by a Desymmetrization Strategy. <i>Angewandte Chemie</i> , 2017, 129, 15289-15293.	1.6	24
70	Pd-Catalyzed Asymmetric Intramolecular Arylative Dearomatization of <i>para</i> -Aminophenols. <i>Chinese Journal of Chemistry</i> , 2020, 38, 683-689.	2.6	24
71	Molybdenum-Catalyzed Deoxygenative Cyclopropanation of 1,2-Dicarbonyl or Monocarbonyl Compounds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15254-15259.	7.2	22
72	Enantioselective Access to β -All-Carbon Quaternary Center-Containing Cyclohexanones by Palladium-Catalyzed Desymmetrization. <i>ACS Catalysis</i> , 2020, 10, 216-224.	5.5	21

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73	Rhodium(III)-Catalyzed Enantioselective C-H Activation/Annulation of Ferrocenecarboxamides with Internal Alkynes. <i>ACS Catalysis</i> , 2022, 12, 3083-3093.	5.5	20
74	Enantioselective Dearomative Mizoroki-Heck Reaction of Naphthalenes. <i>ACS Catalysis</i> , 2022, 12, 655-661.	5.5	19
75	Iridium-Catalyzed Asymmetric Allylic Substitution of Methyl Azaarenes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	19
76	Fe(OTf) ₃ Catalyzed Annulation of 2,3-Disubstituted Indoles with Aziridines. <i>Chinese Journal of Chemistry</i> , 2014, 32, 709-714.	2.6	18
77	Palladium-Catalyzed Dearomative Methoxyallylation of 3-Nitroindoles with Allyl Carbonates. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22184-22188.	7.2	15
78	Iridium-Catalyzed Intramolecular Asymmetric Allylic Dearomatization Reaction of Benzoxazoles, Benzothiazoles, and Benzimidazoles. <i>Angewandte Chemie</i> , 2017, 129, 1552-1556.	1.6	14
79	Iridium-Catalyzed Asymmetric Allylic Aromatization Reaction. <i>Angewandte Chemie</i> , 2019, 131, 10603-10609.	1.6	13
80	Pd-Catalyzed Asymmetric Dearomative Arylation of Indoles via a Desymmetrization Strategy. <i>Organic Letters</i> , 2022, 24, 1481-1485.	2.4	13
81	Catalytic Asymmetric Dearomatization of Indolyl Dihydropyridines through an Enamine Isomerization/Spirocyclization/Transfer Hydrogenation Sequence. <i>Angewandte Chemie</i> , 2018, 130, 2683-2686.	1.6	12
82	Manipulation of Spiroindolenine Intermediates for Enantioselective Synthesis of 3-(Indol-3-yl)pyrrolidines. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1158-1162.	7.2	12
83	Iridium-Catalyzed Enantioselective Intermolecular Indole C2-Allylation. <i>Angewandte Chemie</i> , 2020, 132, 7668-7674.	1.6	12
84	Enantioselective construction of a congested quaternary stereogenic center in isoindolinones bearing three aryl groups via an organocatalytic formal Betti reaction. <i>Organic Chemistry Frontiers</i> , 2022, 9, 428-435.	2.3	11
85	Iridium-Catalyzed Intermolecular Asymmetric Allylic Amination with Pyridones. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 3432-3437.	2.1	9
86	Sml2-mediated enantioselective reductive dearomatization of non-activated arenes. , 2022, 1, 401-406.		8
87	Visible-Light-Induced Intramolecular Double Dearomative Cycloaddition of Arenes. <i>Angewandte Chemie</i> , 2021, 133, 7112-7116.	1.6	7
88	Characterization of Histidine Functionalization and Its Timing in the Biosynthesis of Ribosomally Synthesized and Posttranslationally Modified Thioamitides. <i>Journal of the American Chemical Society</i> , 2022, 144, 4431-4438.	6.6	7
89	Enantioselective synthesis of polycyclic pyrrole derivatives by iridium-catalyzed asymmetric allylic dearomatization and ring-expansive migration reactions. <i>Chemical Communications</i> , 2021, 57, 5390-5393.	2.2	6
90	Divergent Pathways and Dynamic Effects of Intramolecular Hydride Transfer Reactions Mediated by Cp*M(III) Complexes (M = Co, Rh, Ir). <i>Chinese Journal of Chemistry</i> , 2020, 38, 1579-1584.	2.6	5

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91	Iridium-catalyzed Asymmetric Allylic Substitution of Methyl Azaarenes. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
92	Chiral Brønsted Acid-Catalyzed Intramolecular Asymmetric Allylic Alkylation of Indoles with Primary Alcohols. <i>Organic Letters</i> , 2022, 24, 3544-3548.	2.4	4
93	Silica gel-promoted synthesis of multisubstituted spiroindolenines from tryptamines and β -chloro- α,β -unsaturated ketones. <i>Tetrahedron</i> , 2021, 77, 131765.	1.0	3
94	Palladium-catalyzed Dearomative Methoxyallylation of 3-Nitroindoles with Allyl Carbonates. <i>Angewandte Chemie</i> , 2021, 133, 22358-22362.	1.6	3
95	Post-spin crossing dynamics determine the regioselectivity in open-shell singlet biradical recombination. <i>Organic Chemistry Frontiers</i> , 0, , .	2.3	3
96	Iridium-catalyzed Intramolecular Asymmetric Allylic Dearomatization of Benzene Derivatives. <i>Angewandte Chemie</i> , 2018, 130, 16422-16425.	1.6	2
97	Ag ₂ O/squaramide cocatalyzed asymmetric interrupted barton-zard reaction of 8-nitroimidazo[1,2-a]pyridines. <i>Science Bulletin</i> , 2022, , .	4.3	2
98	Manipulation of Spiroindolenine Intermediates for Enantioselective Synthesis of 3-(Indol-3-yl)pyrrolidines. <i>Angewandte Chemie</i> , 2019, 131, 1170-1174.	1.6	1
99	Organocatalytic Asymmetric Dearomatizing Hetero-Diels-Alder Reaction of Nonactivated Arenes. <i>Chinese Journal of Organic Chemistry</i> , 2022, 42, 1880.	0.6	0