

Chao Zheng

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97 papers	6,222 citations	41 h-index	78 g-index
107 ext. papers	7,615 ext. citations	12.7 avg, IF	6.92 L-index

#	Paper	IF	Citations
97	Transition-metal-catalyzed asymmetric allylic dearomatization reactions. <i>Accounts of Chemical Research</i> , 2014 , 47, 2558-73	24.3	592
96	Recent development of direct asymmetric functionalization of inert C-H bonds. <i>RSC Advances</i> , 2014 , 4, 6173	3.7	448
95	Transfer hydrogenation with Hantzsch esters and related organic hydride donors. <i>Chemical Society Reviews</i> , 2012 , 41, 2498-518	58.5	417
94	Catalytic Asymmetric Dearomatization by Transition-Metal Catalysis: A Method for Transformations of Aromatic Compounds. <i>Chem</i> , 2016 , 1, 830-857	16.2	349
93	Iridium-Catalyzed Asymmetric Allylic Substitution Reactions. <i>Chemical Reviews</i> , 2019 , 119, 1855-1969	68.1	328
92	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, 5242-5	16.4	252
91	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, 4880-3	16.4	238
90	Desymmetrization of cyclohexadienones via Brønsted acid-catalyzed enantioselective oxo-Michael reaction. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4056-7	16.4	225
89	Enantioselective synthesis of spiro cyclopentane-1,3-indoles and 2,3,4,9-tetrahydro-1H-carbazoles by iridium-catalyzed allylic dearomatization and stereospecific migration. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1680-3	16.4	217
88	Synthesis of Planar Chiral Ferrocenes via Transition-Metal-Catalyzed Direct C-H Bond Functionalization. <i>Accounts of Chemical Research</i> , 2017 , 50, 351-365	24.3	194
87	Iridium-catalyzed allylic alkylation reaction with N-aryl phosphoramidite ligands: scope and mechanistic studies. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4812-21	16.4	163
86	Catalytic asymmetric dearomatization (CADA) reaction-enabled total synthesis of indole-based natural products. <i>Natural Product Reports</i> , 2019 , 36, 1589-1605	15.1	145
85	Asymmetric Synthesis of Spiropyrazolones by Rhodium-Catalyzed C(sp ²)-H Functionalization/Annulation Reactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4540-4544	16.4	130
84	Chiral phosphoric acid-catalyzed asymmetric dearomatization reactions. <i>Chemical Society Reviews</i> , 2020 , 49, 286-300	58.5	126
83	Dearomatization through Halofunctionalization Reactions. <i>Chemistry - A European Journal</i> , 2016 , 22, 11918-33	4.8	113
82	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	16.4	102
81	Asymmetric Dearomatization of β -Naphthols through a Bifunctional-Thiourea-Catalyzed Michael Reaction. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14929-32	16.4	87

80	Enantioselective Synthesis of Spiro Cyclopentane-1,3?-indoles and 2,3,4,9-Tetrahydro-1H-carbazoles by Iridium-Catalyzed Allylic Dearomatization and Stereospecific Migration. <i>Angewandte Chemie</i> , 2012 , 124, 1712-1715	3.6	81
79	Iridium-Catalyzed Asymmetric Allylic Dearomatization by a Desymmetrization Strategy. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15093-15097	16.4	78
78	Iridium-Catalyzed Intermolecular Asymmetric Dearomatization of β -Naphthols with Allyl Alcohols or Allyl Ethers. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3237-3241	16.4	75
77	Construction of Chiral Tetrahydro- β -Carbolines: Asymmetric Pictet-Spengler Reaction of Indolyl Dihydropyridines. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7440-7443	16.4	66
76	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	16.4	64
75	Advances in Catalytic Asymmetric Dearomatization. <i>ACS Central Science</i> , 2021 , 7, 432-444	16.8	63
74	A combined theoretical and experimental investigation into the highly stereoselective migration of spiroindolenines. <i>Journal of Organic Chemistry</i> , 2013 , 78, 4357-65	4.2	61
73	Enantioselective dearomative prenylation of indole derivatives. <i>Nature Catalysis</i> , 2018 , 1, 601-608	36.5	59
72	Enantioselective Michael/Mannich Polycyclization Cascade of Indolyl Enones Catalyzed by Quinine-Derived Primary Amines. <i>Angewandte Chemie</i> , 2011 , 123, 8824-8828	3.6	58
71	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	9.4	58
70	Catalytic C6 functionalization of 2,3-disubstituted indoles by scandium triflate. <i>Journal of Organic Chemistry</i> , 2014 , 79, 1047-54	4.2	57
69	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, 16251-9	16.4	54
68	Catalytic Asymmetric Dearomatization of Indolyl Dihydropyridines through an Enamine Isomerization/Spirocyclization/Transfer Hydrogenation Sequence. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2653-2656	16.4	53
67	A DFT Study on Rh-Catalyzed Asymmetric Dearomatization of 2-Naphthols Initiated with C \equiv N Activation: A Refined Reaction Mechanism and Origins of Multiple Selectivity. <i>ACS Catalysis</i> , 2016 , 6, 262-271	13.1	53
66	Pd-Catalyzed Highly Enantioselective Synthesis of Planar Chiral Ferrocenylpyridine Derivatives. <i>Organometallics</i> , 2015 , 34, 4618-4625	3.8	51
65	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	24.3	51
64	Enantioselective Intramolecular Aza-Michael Additions of Indoles Catalyzed by Chiral Phosphoric Acids. <i>Angewandte Chemie</i> , 2010 , 122, 8848-8851	3.6	48
63	Asymmetric synthesis of syn-propargylamines and unsaturated β -amino acids under Brønsted base catalysis. <i>Nature Communications</i> , 2015 , 6, 8544	17.4	47

62	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	16.4	46
61	Sequence-Dependent Stereodivergent Allylic Alkylation/Fluorination of Acyclic Ketones. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2039-2043	16.4	46
60	Iridium-Catalyzed Intramolecular Asymmetric Allylic Dearomatization Reaction of Benzoxazoles, Benzothiazoles, and Benzimidazoles. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1530-1534	16.4	45
59	Unified Mechanistic Understandings of Pictet-Spengler Reactions. <i>CheM</i> , 2018 , 4, 1952-1966	16.2	44
58	Iridium-catalyzed -retentive asymmetric allylic substitution reactions. <i>Science</i> , 2021 , 371, 380-386	33.3	44
57	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	16.4	42
56	Cu /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	16.4	39
55	Chiral Brønsted Acid Catalyzed Enantioselective aza-Friedel-Crafts Reaction of Cyclic Diaryl N-Acyl Imines with Indoles. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8752-8760	4.2	38
54	Highly Diastereo- and Enantioselective Synthesis of Quinuclidine Derivatives by an Iridium-Catalyzed Intramolecular Allylic Dearomatization Reaction. <i>CCS Chemistry</i> , 106-116	7.2	36
53	Iridium-Catalyzed Enantioselective Synthesis of Pyrrole-Annulated Medium-Sized-Ring Compounds. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10545-10548	16.4	35
52	Time-dependent enantiodivergent synthesis via sequential kinetic resolution. <i>Nature Chemistry</i> , 2020 , 12, 838-844	17.6	32
51	Enantioselective Synthesis of Azoniahelicenes by Rh-Catalyzed C-H Annulation with Alkynes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 114-120	16.4	32
50	Palladium(0)-Catalyzed Intermolecular Asymmetric Allylic Dearomatization of Polycyclic Indoles. <i>Organic Letters</i> , 2018 , 20, 748-751	6.2	30
49	Iridium-Catalyzed Asymmetric Allylic Aromatization Reaction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10493-10499	16.4	27
48	Chiral phosphoric acid catalyzed aminative dearomatization of β -naphthols/Michael addition sequence. <i>Nature Communications</i> , 2019 , 10, 3150	17.4	26
47	Catalytic Asymmetric Chlorinative Dearomatization Reaction of Benzofurans. <i>Advanced Synthesis and Catalysis</i> , 2016 , 358, 2066-2071	5.6	25
46	Construction of Chiral Tetrahydro- β -Carbolines: Asymmetric Pictet-Spengler Reaction of Indolyl Dihydropyridines. <i>Angewandte Chemie</i> , 2017 , 129, 7548-7551	3.6	24
45	Asymmetric Dearomatization of β -Naphthols through a Bifunctional-Thiourea-Catalyzed Michael Reaction. <i>Angewandte Chemie</i> , 2015 , 127, 15142-15145	3.6	22

44	Iridium-Catalyzed Intermolecular Asymmetric Dearomatization of β -Naphthols with Allyl Alcohols or Allyl Ethers. <i>Angewandte Chemie</i> , 2017 , 129, 3285-3289	3.6	20
43	Iridium-Catalyzed Enantioselective Intermolecular Indole C2-Allylation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7598-7604	16.4	20
42	Pd-Catalyzed Dearomatization of Indole Derivatives via Intermolecular Heck Reactions. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 235-241	4.9	20
41	Enantioselective Synthesis of Arene cis-Dihydrodiols from 2-Pyrones. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14562-14567	16.4	19
40	Iridium-Catalyzed Asymmetric Allylic Dearomatization by a Desymmetrization Strategy. <i>Angewandte Chemie</i> , 2017 , 129, 15289-15293	3.6	19
39	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	13.1	19
38	Visible-Light-Mediated Synthesis of Cyclobutene-Fused Indolizidines and Related Structural Analogs. <i>CCS Chemistry</i> , 2021 , 3, 652-664	7.2	19
37	Iridium-Catalyzed Intramolecular Asymmetric Allylic Dearomatization of Benzene Derivatives. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16190-16193	16.4	19
36	Enantioselective Desymmetrization of Bisphenol Derivatives via Ir-Catalyzed Allylic Dearomatization. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19354-19359	16.4	14
35	Fe(OTf) ₃ Catalyzed Annulation of 2,3-Disubstituted Indoles with Aziridines. <i>Chinese Journal of Chemistry</i> , 2014 , 32, 709-714	4.9	14
34	Iridium-Catalyzed Intramolecular Asymmetric Allylic Dearomatization Reaction of Benzoxazoles, Benzothiazoles, and Benzimidazoles. <i>Angewandte Chemie</i> , 2017 , 129, 1552-1556	3.6	13
33	Sequence-Dependent Stereodivergent Allylic Alkylation/Fluorination of Acyclic Ketones. <i>Angewandte Chemie</i> , 2020 , 132, 2055-2059	3.6	13
32	Enantioselective Access to β -All-Carbon Quaternary Center-Containing Cyclohexanones by Palladium-Catalyzed Desymmetrization. <i>ACS Catalysis</i> , 2020 , 10, 216-224	13.1	12
31	Silver-Catalyzed Asymmetric Dearomatization of Electron-Deficient Heteroarenes via Interrupted Barton-Zard Reaction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19730-19734	16.4	12
30	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	16.4	12
29	Palladium-catalyzed dearomative 1,4-difunctionalization of naphthalenes. <i>Chemical Science</i> , 2020 , 11, 6830-6835	9.4	11
28	Catalytic Asymmetric Dearomatization of Indolyl Dihydropyridines through an Enamine Isomerization/Spirocyclization/Transfer Hydrogenation Sequence. <i>Angewandte Chemie</i> , 2018 , 130, 2683-2686	3.6	11
27	Ni-catalyzed enantioselective [2+2] cycloaddition of malononitriles with alkynes. <i>Chem</i> , 2021 , 7, 799-811	16.2	11

26	CuI/TEMPO-Catalyzed Enantioselective C(sp ³)–H Alkynylation of Tertiary Cyclic Amines through Shono-Type Oxidation. <i>Angewandte Chemie</i> , 2020 , 132, 15366-15371	3.6	10
25	Manipulation of Spiroindolenine Intermediates for Enantioselective Synthesis of 3-(Indol-3-yl)-Pyrrolidines. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1158-1162	16.4	10
24	PdII-Catalyzed Regio- and Enantioselective Oxidative C _H /C _H Cross-Coupling Reaction between Ferrocenes and Azoles. <i>Angewandte Chemie</i> , 2019 , 131, 2171-2175	3.6	9
23	Visible-Light-Induced Intramolecular Double Dearomative Cycloaddition of Arenes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7036-7040	16.4	9
22	Iridium-Catalyzed Asymmetric Allylic Aromatization Reaction. <i>Angewandte Chemie</i> , 2019 , 131, 10603-10609	16.4	8
21	Pd-Catalyzed Asymmetric Intramolecular Arylative Dearomatization of para-Aminophenols. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 683-689	4.9	8
20	Molybdenum-Catalyzed Deoxygenative Cyclopropanation of 1,2-Dicarbonyl or Monocarbonyl Compounds. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15254-15259	16.4	8
19	Palladium-Catalyzed Dearomative Methoxyallylation of 3-Nitroindoles with Allyl Carbonates. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22184-22188	16.4	5
18	Enantioselective Synthesis of Medium-Sized-Ring Lactones via Iridium-Catalyzed -Retentive Asymmetric Allylic Substitution Reaction.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	5
17	Cascade asymmetric dearomative cyclization reactions via transition-metal-catalysis 2022 , 1, 203-216		5
16	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	4.9	4
15	Iridium-Catalyzed Enantioselective Intermolecular Indole C2-Allylation. <i>Angewandte Chemie</i> , 2020 , 132, 7668-7674	3.6	4
14	Enantioselective Dearomative Mizoroki–Heck Reaction of Naphthalenes. <i>ACS Catalysis</i> , 2022 , 12, 655-661	13.1	3
13	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> ,	5.2	3
12	Iridium-Catalyzed Asymmetric Allylic Substitution of Methyl Azaarenes.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	3
11	Visible-Light-Induced Dearomatization via [2+2] Cycloaddition or 1,5-Hydrogen Atom Transfer: Regulating Reaction Pathways of Diradicals on Excited States		2
10	Visible-Light-Induced Intramolecular Double Dearomative Cycloaddition of Arenes. <i>Angewandte Chemie</i> , 2021 , 133, 7112-7116	3.6	2
9	Iridium-Catalyzed Intramolecular Asymmetric Allylic Dearomatization of Benzene Derivatives. <i>Angewandte Chemie</i> , 2018 , 130, 16422-16425	3.6	2

8	Manipulation of Spiroindolenine Intermediates for Enantioselective Synthesis of 3-(Indol-3-yl)-Pyrrolidines. <i>Angewandte Chemie</i> , 2019 , 131, 1170-1174	3.6	1
7	Silver-Catalyzed Asymmetric Dearomatization of Electron-Deficient Heteroarenes via Interrupted Barton-Zard Reaction. <i>Angewandte Chemie</i> , 2021 , 133, 19882-19886	3.6	1
6	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	5.8	1
5	Sml2-mediated enantioselective reductive dearomatization of non-activated arenes	2022 , 1, 401-406	1
4	Silica gel-promoted synthesis of multisubstituted spiroindolenines from tryptamines and α -chloro- β -unsaturated ketones. <i>Tetrahedron</i> , 2021 , 77, 131765	2.4	0
3	Palladium-Catalyzed Dearomative Methoxyallylation of 3-Nitroindoles with Allyl Carbonates. <i>Angewandte Chemie</i> , 2021 , 133, 22358-22362	3.6	0
2	Rhodium(III)-Catalyzed Enantioselective C-H Activation/Annulation of Ferrocenecarboxamides with Internal Alkynes. <i>ACS Catalysis</i> , 2022 , 12, 3083-3093	13.1	0
1	Chiral Brønsted Acid-Catalyzed Intramolecular Asymmetric Allylic Alkylation of Indoles with Primary Alcohols.. <i>Organic Letters</i> , 2022 , 24, 3544-3548	6.2	0