Zhan Lu

List of Publications by Citations

101 papers	6,756 citations	40 h-index	81 g-index
135 ext. papers	7,925 ext. citations	7.7 avg, IF	6.86 L-index

#	Paper	IF	Citations
101	Metal-catalyzed enantioselective allylation in asymmetric synthesis. *Angewandte Chemie - International Edition*, **2008**, 47, 258-97	16.4	1159
100	Metallkatalysierte enantioselektive Allylierungen in der asymmetrischen Synthese. *Angewandte Chemie*, **2008**, 120, 264-303	3.6	393
99	[2+2] cycloadditions by oxidative visible light photocatalysis. *Journal of the American Chemical Society*, **2010**, 132, 8572-4	16.4	339
98	Visible light photocatalysis of [2+2] styrene cycloadditions by energy transfer. *Angewandte Chemie - International Edition*, **2012**, 51, 10329-32	16.4	281
97	[3+2] cycloadditions of aryl cyclopropyl ketones by visible light photocatalysis. *Journal of the American Chemical Society*, **2011**, 133, 1162-4	16.4	245
96	Recent Advances in Hydrometallation of Alkenes and Alkynes via the First Row Transition Metal Catalysis. *Chinese Journal of Chemistry*, **2018**, 36, 1075-1109	4.9	192
95	Olefin difunctionalizations via visible light photocatalysis. *Tetrahedron Letters*, **2015**, 56, 3732-3742	2	160
94	Regioselective copper-catalyzed chlorination and bromination of arenes with O(2) as the oxidant. *Chemical Communications*, **2009**, 6460-2	5.8	153
93	Asymmetric hydrofunctionalization of minimally functionalized alkenes via earth abundant transition metal catalysis. *Organic Chemistry Frontiers*, **2018**, 5, 260-272	5.2	136
92	Highly Chemo-, Regio-, and Stereoselective Cobalt-Catalyzed Markovnikov Hydrosilylation of Alkynes. *Angewandte Chemie - International Edition*, **2016**, 55, 10835-8	16.4	131
91	Regio- and Enantioselective Cobalt-Catalyzed Sequential Hydrosilylation/Hydrogenation of Terminal Alkynes. *Angewandte Chemie - International Edition*, **2017**, 56, 615-618	16.4	130
90	Highly Enantioselective Cobalt-Catalyzed Hydrosilylation of Alkenes. *Journal of the American Chemical Society*, **2017**, 139, 9439-9442	16.4	129
89	Catalytic enantioselective organic transformations via visible light photocatalysis. *Organic Chemistry Frontiers*, **2015**, 2, 179-190	5.2	128
88	[2+2] cycloaddition of 1,3-dienes by visible light photocatalysis. *Angewandte Chemie - International Edition*, **2014**, 53, 8991-4	16.4	122
87	Iron-catalyzed asymmetric hydrosilylation of 1,1-disubstituted alkenes. *Angewandte Chemie - International Edition*, **2015**, 54, 4661-4	16.4	119
86	Cobalt-Catalyzed Asymmetric Sequential Hydroboration/Hydrogenation of Internal Alkynes. *Journal of the American Chemical Society*, **2017**, 139, 15316-15319	16.4	109
85	Cobalt-catalyzed asymmetric hydroboration of aryl ketones with pinacolborane. *Chemical Communications*, **2015**, 51, 5725-7	5.8	109

84	Asymmetric cobalt catalysts for hydroboration of 1,1-disubstituted alkenes. *Organic Chemistry Frontiers*, **2014**, 1, 1306-1309	5.2	108
83	Iminopyridine oxazoline iron catalyst for asymmetric hydroboration of 1,1-disubtituted aryl alkenes. *Organic Letters*, **2014**, 16, 6452-5	6.2	107
82	Cobalt-Catalyzed Asymmetric Hydrogenation of 1,1-Diarylethenes. *Organic Letters*, **2016**, 18, 1594-7	6.2	101
81	Iron-Catalyzed Highly Enantioselective Hydrosilylation of Unactivated Terminal Alkenes. *Journal of the American Chemical Society*, **2018**, 140, 5014-5017	16.4	94
80	Endoperoxide synthesis by photocatalytic aerobic [2 + 2 + 2] cycloadditions. *Organic Letters*, **2012**, 14, 1640-3	6.2	91
79	Cu- and Pd-catalyzed asymmetric one-pot tandem addition-cyclization reaction of 2-(2,3-U-alkadienyl)-beta-keto esters, organic halides, and dibenzyl azodicarboxylate: an effective protocol for the enantioselective synthesis of pyrazolidine derivatives. *Organic Letters*, **2004**, 6, 2193-6	6.2	91
78	Iron-catalyzed highly regio- and stereoselective conjugate addition of 2,3-allenoates with Grignard reagents. *Journal of the American Chemical Society*, **2007**, 129, 14546-7	16.4	90
77	Asymmetric remote C-H borylation of internal alkenes via alkene isomerization. *Nature Communications*, **2018**, 9, 3939	17.4	87
76	Enantioselective benzylic C-H arylation via photoredox and nickel dual catalysis. *Nature Communications*, **2019**, 10, 3549	17.4	81
75	Visible Light Photocatalysis of [2+2] Styrene Cycloadditions by Energy Transfer. *Angewandte Chemie*, **2012**, 124, 10475-10478	3.6	79
74	Intramolecular Pd(II)-catalyzed aerobic oxidative amination of alkenes: synthesis of six-membered N-heterocycles. *Organic Letters*, **2012**, 14, 1234-7	6.2	77
73	Dual-Stereocontrol Asymmetric Cobalt-Catalyzed Hydroboration of Sterically Hindered Styrenes. *ACS Catalysis*, **2016**, 6, 6596-6600	13.1	74
72	Cobalt-Catalyzed Asymmetric Synthesis of gem-Bis(silyl)alkanes by Double Hydrosilylation of Aliphatic Terminal Alkynes. *CheM*, **2019**, 5, 881-895	16.2	66
71	Cobalt-Catalyzed Ligand-Controlled Regioselective Hydroboration/Cyclization of 1,6-Enynes. *ACS Catalysis*, **2017**, 7, 1181-1185	13.1	64
70	Synthesis of polysubstituted furans based on a stepwise Sonogashira coupling of (Z)-3-iodoalk-2-en-1-ols with terminal propargylic alcohols and subsequent Au(I)- or Pd(II)-catalyzed cyclization-aromatization via elimination of H2O. *Journal of Organic Chemistry*, **2010**, 75, 2589-98	4.2	62
69	Visible-Light-Promoted Metal-Free Aerobic Hydroxyazidation of Alkenes. *ACS Catalysis*, **2017**, 7, 8362-8365	13.1	53
68	Studies on the Cu(I)-catalyzed regioselective anti-carbometallation of secondary terminal propargylic alcohols. *Journal of Organic Chemistry*, **2006**, 71, 2655-60	4.2	50
67	Iron-Catalyzed, Markovnikov-Selective Hydroboration of Styrenes. *Organic Letters*, **2017**, 19, 969-971	6.2	45

66	Regio- and Enantioselective Cobalt-Catalyzed Sequential Hydrosilylation/Hydrogenation of Terminal Alkynes. *Angewandte Chemie*, **2017**, 129, 630-633	3.6	41
65	Ligand-promoted cobalt-catalyzed radical hydroamination of alkenes. *Nature Communications*, **2020**, 11, 783	17.4	41
64	Iron-Catalyzed Hydroboration of Vinylcyclopropanes. *Organic Letters*, **2017**, 19, 5422-5425	6.2	40
63	Iminophenyl Oxazolinylphenylamine for Enantioselective Cobalt-Catalyzed Hydrosilylation of Aryl Ketones. *Organic Letters*, **2016**, 18, 4658-61	6.2	40
62	Iron- and Cobalt-Catalyzed Asymmetric Hydrofunctionalization of Alkenes and Alkynes. *Accounts of Chemical Research*, **2021**, 54, 2701-2716	24.3	40
61	Highly Chemo-, Regio-, and Stereoselective Cobalt-Catalyzed Markovnikov Hydrosilylation of Alkynes. *Angewandte Chemie*, **2016**, 128, 10993-10996	3.6	38
60	Visible light promoted difunctionalization reactions of alkynes. *Chinese Journal of Catalysis*, **2019**, 40, 1003-1019	11.3	36
59	Highly Regioselective Sequential 1,1-Dihydrosilylation of Terminal Aliphatic Alkynes with Primary Silanes. *Chinese Journal of Chemistry*, **2019**, 37, 457-461	4.9	36
58	Cobalt-Catalyzed Asymmetric Markovnikov Hydroboration of Styrenes. *ACS Catalysis*, **2019**, 9, 4025-4029	13.1	34
57	Studies on the tandem reaction of 4-Aryl-2,3-allenoates with organozinc reagents: a facile route to polysubstituted naphthols. *Chemistry - A European Journal*, **2009**, 15, 11083-6	4.8	34
56	Cobalt-Catalyzed Hydrosilylation/Cyclization of 1,6-Enynes. *Journal of Organic Chemistry*, **2016**, 81, 8858-8866	4.8	33
55	Visible-Light Promoted Distereodivergent Intramolecular Oxyamidation of Alkenes. *Chemistry - A European Journal*, **2016**, 22, 18695-18699	4.8	33
54	[3+2] Photooxygenation of aryl cylopropanes via visible light photocatalysis. *Tetrahedron*, **2014**, 70, 4270-4278	2.4	33
53	Ferric Chloride Hexahydrate-Catalyzed Highly Regio- and Stereoselective Conjugate Addition Reaction of 2,3-Allenoates with Grignard Reagents: An Efficient Synthesis of Alkenoates. *Advanced Synthesis and Catalysis*, **2009**, 351, 1946-1954	5.6	32
52	An efficient double 1,2-addition reaction of 2,3-allenoates with allyl magnesium chloride. *Journal of Organic Chemistry*, **2008**, 73, 9486-9	4.2	31
51	Recent advances in metal-catalysed asymmetric sequential double hydrofunctionalization of alkynes. *Chemical Communications*, **2020**, 56, 2229-2239	5.8	31
50	Iron-Catalyzed Asymmetric Hydrosilylation of 1,1-Disubstituted Alkenes. *Angewandte Chemie*, **2015**, 127, 4744-4747	3.6	30
49	Cobalt-Catalyzed Markovnikov Selective Sequential Hydrogenation/Hydrohydrazidation of Aliphatic Terminal Alkynes. *Journal of the American Chemical Society*, **2020**, 142, 14455-14460	16.4	29

48	[2+2] Cycloaddition of 1,3-Dienes by Visible Light Photocatalysis. *Angewandte Chemie*, **2014**, 126, 9137-9140	3.6	28
47	Intermolecular [2 + 2] Cycloaddition of 1,4-Dihydropyridines with Olefins via Energy Transfer. *Organic Letters*, **2017**, 19, 5888-5891	6.2	26
46	Visible light-promoted dihydroxylation of styrenes with water and dioxygen. *Chemical Communications*, **2017**, 53, 12634-12637	5.8	25
45	Palladium-Catalyzed C-2 C-H Heteroarylation of Chiral Oxazolines: Diverse Synthesis of Chiral Oxazoline Ligands. *Organic Letters*, **2015**, 17, 5939-41	6.2	25
44	Synthesis of highly substituted allylic alcohols by a regio- and stereo-defined CuCl-mediated carbometallation reaction of 3-aryl-substituted secondary propargylic alcohols with Grignard reagents. *Organic and Biomolecular Chemistry*, **2009**, 7, 3258-63	3.9	25
43	Controllable highly stereoselective reaction of in situ generated magnesium dienolate intermediates with different electrophiles. *Organic Letters*, **2008**, 10, 3517-20	6.2	25
42	Highly regio- and stereoselective double Michael addition-cyclization of 2,3-allenoates with organozinc compounds: efficient synthesis of 5-benzylidenecyclohex-2-enones. *Angewandte Chemie - International Edition*, **2008**, 47, 6045-8	16.4	25
41	Visible Light-Promoted Three-Component Carboazidation of Unactivated Alkenes with TMSN3 and Acrylonitrile. *Chinese Journal of Chemistry*, **2018**, 36, 1017-1023	4.9	25
40	[3+2] Redox-Neutral Cycloaddition of Nitrocyclopropanes with Styrenes by Visible-Light Photocatalysis. *Chemistry - A European Journal*, **2015**, 21, 9676-80	4.8	24
39	Highly Regio- and Stereoselective Copper(I) Chloride-Mediated Carbometallation of 2,3-Allenols with Grignard Reagents. *Advanced Synthesis and Catalysis*, **2007**, 349, 1225-1230	5.6	23
38	Cobalt-Catalyzed Migrational Isomerization of Styrenes. *Organic Letters*, **2020**, 22, 837-841	6.2	23
37	Visible-Light-Promoted Aerobic Homogenous Oxygenation Reactions. *Chinese Journal of Organic Chemistry*, **2017**, 37, 251	3	22
36	Controllable Intramolecular Unactivated C(sp3)-H Amination and Oxygenation of Carbamates. *Organic Letters*, **2019**, 21, 880-884	6.2	21
35	Novozym 435-catalyzed kinetic resolution of □allenols. A facile route for the preparation of optically active □allenols or allenyl acetates. *Tetrahedron*, **2004**, 60, 11879-11887	2.4	21
34	Recent advances in chiral imino-containing ligands for metal-catalyzed asymmetric transformations. *Organic and Biomolecular Chemistry*, **2017**, 15, 2280-2306	3.9	20
33	Enantioselective Cobalt-Catalyzed Sequential Nazarov Cyclization/Electrophilic Fluorination: Access to Chiral □Fluorocyclopentenones. *Organic Letters*, **2018**, 20, 4028-4031	6.2	20
32	Recent Advances in Nitrogen□Nitrogen Bond Formation. *Synthesis*, **2017**, 49, 3835-3847	2.9	20
31	Cobalt-Catalyzed Markovnikov-Type Selective Hydroboration of Terminal Alkynes. *Angewandte Chemie - International Edition*, **2021**, 60, 690-694	16.4	20

30	Highly Enantioselective Cobalt-Catalyzed Hydroboration of Diaryl Ketones. *Organic Letters*, **2020**, 22, 2532-2536	6.2	18
29	A general protocol for radical anion [3 + 2] cycloaddition enabled by tandem Lewis acid photoredox catalysis. *Synthesis*, **2018**, 50, 539-547	2.9	18
28	Visible-Light-Promoted Metal-Free Aerobic Oxidation of Primary Amines to Acids and Lactones. *Chemistry - A European Journal*, **2016**, 22, 17566-17570	4.8	16
27	Copper(I)-Mediated Highly Stereoselective syn-Carbometalation of Secondary or Tertiary Propargylic Alcohols with Primary Grignard Reagents in Toluene with a High Linear Regioselectivity. *Advanced Synthesis and Catalysis*, **2006**, 348, 1894-1898	5.6	15
26	How Solvents Control the Stereospecificity of Ni-Catalyzed Miyaura Borylation of Allylic Pivalates. *ACS Catalysis*, **2019**, 9, 9589-9598	13.1	14
25	Highly Regio- and Stereoselective Double Michael Addition–Cyclization of 2,3-Allenoates with Organozinc Compounds: Efficient Synthesis of 5-Benzylidenecyclohex-2-enones. *Angewandte Chemie*, **2008**, 120, 6134-6137	3.6	14
24	Iron-Catalyzed Asymmetric Hydrosilylation of Vinylcyclopropanes via Stereospecific C-C Bond Cleavage. *IScience*, **2020**, 23, 100985	6.1	13
23	Visible-Light-Promoted Oxidative [4 + 2] Cycloadditions of Aryl Silyl Enol Ethers. *Journal of Organic Chemistry*, **2016**, 81, 7288-300	4.2	12
22	Stereo- and Enantioselective Benzylic C–H Alkenylation via Photoredox/Nickel Dual Catalysis. *ACS Catalysis*, **2021**, 11, 11059-11065	13.1	12
21	10 gram-scale synthesis of a chiral oxazoline iminopyridine ligand and its applications. *Organic Chemistry Frontiers*, **2018**, 5, 247-253	5.2	11
20	Reductive Cyclization of 1,6- and 1,7-Enynes Catalyzed by Iron Complexes. *Synthesis*, **2016**, 48, 2837-2844	2.9	11
19	Chiral Imidazoline Ligands and Their Applications in Metal-Catalyzed Asymmetric Synthesis. *Chinese Journal of Chemistry*, **2021**, 39, 488-514	4.9	10
18	Regio-controllable Cobalt-Catalyzed Sequential Hydrosilylation/Hydroboration of Arylacetylenes. *Angewandte Chemie - International Edition*, **2021**, 60, 22454-22460	16.4	9
17	Nickel-catalyzed enantioselective sequential Nazarov cyclization/decarboxylation. *Organic Chemistry Frontiers*, **2018**, 5, 1763-1767	5.2	8
16	Catalytic Asymmetric Hydrosilylation of 1,1-Disubstituted Alkenes. *Synlett*, **2015**, 26, 2332-2335	2.2	8
15	Application of Pinacolborane in Catalytic Enantioselective Hydroboration of Ketones and Imines. *Chinese Journal of Organic Chemistry*, **2020**, 40, 3596	3	8
14	Cobalt-Catalyzed Markovnikov-Type Selective Hydroboration of Terminal Alkynes. *Angewandte Chemie*, **2021**, 133, 700-704	3.6	8
13	Ligand relay catalysis for cobalt-catalyzed sequential hydrosilylation and hydrohydrazidation of terminal alkynes.. *Nature Communications*, **2022**, 13, 650	17.4	7

List of Publications

12	Cobalt-Catalyzed Dehydrogenative Silylation of Vinylarenes. *Chinese Journal of Organic Chemistry*, **2019**, 39, 1704	3	6
11	Nickel-Catalyzed C□H Heteroarylation of Chiral Oxazolines. *Asian Journal of Organic Chemistry*, **2018**, 7, 542-544	3	6
10	Iron-Catalyzed Highly Enantioselective Hydrogenation of Alkenes. *Journal of the American Chemical Society*, **2021**, 143, 12433-12438	16.4	5
9	Nickel/Copper Dual Catalysis for Sequential Nazarov Cyclization/Decarboxylative Aldol Reaction. *Organic Letters*, **2018**, 20, 5709-5713	6.2	4
8	Cobalt-Catalyzed Asymmetric 1,4-Hydroboration of Enones with HBpin. *Organic Letters*, **2021**, 23, 8370-8374	6.2	3
7	Ketones and Aldehydes as Alkyl Radical Equivalents for Direct C-H Alkylation of Heteroarenes. *Chinese Journal of Organic Chemistry*, **2019**, 39, 3312	3	3
6	CuCl-catalyzed stereoselective conjugate addition of Grignard reagents to 2,3-allenoates. *Tetrahedron*, **2012**, 68, 2719-2724	2.4	2
5	Regio-controllable Cobalt-Catalyzed Sequential Hydrosilylation/Hydroboration of Arylacetylenes. *Angewandte Chemie*, **2021**, 133, 22628-22634	3.6	2
4	Desymmetrizing Isomerization of Alkene via Thiazolinyl Iminoquinoline Cobalt Catalysis.. *Organic Letters*, **2022**,	6.2	1
3	Cobalt-Catalyzed Asymmetric 1,4-Reduction of □Dialkyl □Unsaturated Esters with PMHS. *European Journal of Organic Chemistry*, **2021**, 2021, 4861-4864	3.2	1
2	Metal-Catalyzed Hydroboration Reactions of Alkyne and Subsequent Asymmetric Transformation1-35		
1	Markovnikov Hydrosilylation of Alkynes with Tertiary Silanes via N-Heterocyclic Carbene-Promoted Dinuclear Cobalt Carbonyl Catalysis. *Chinese Journal of Organic Chemistry*, **2021**, 41, 4091	3	