

# Zhan Lu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Desymmetrizing Isomerization of Alkene via Thiazolanyl Iminoquinoline Cobalt Catalysis.. <i>Organic Letters</i> , <b>2022</b> ,	6.2	1
100	Ligand relay catalysis for cobalt-catalyzed sequential hydrosilylation and hydrohydrazidation of terminal alkynes.. <i>Nature Communications</i> , <b>2022</b> , 13, 650	17.4	7
99	Cobalt-Catalyzed Asymmetric 1,4-Hydroboration of Enones with HBpin. <i>Organic Letters</i> , <b>2021</b> , 23, 8370-8374	3.7	3
98	Iron- and Cobalt-Catalyzed Asymmetric Hydrofunctionalization of Alkenes and Alkynes. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 2701-2716	24.3	40
97	Cobalt-Catalyzed Markovnikov-Type Selective Hydroboration of Terminal Alkynes. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 700-704	3.6	8
96	Cobalt-Catalyzed Markovnikov-Type Selective Hydroboration of Terminal Alkynes. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 690-694	16.4	20
95	Chiral Imidazoline Ligands and Their Applications in Metal-Catalyzed Asymmetric Synthesis□ <i>Chinese Journal of Chemistry</i> , <b>2021</b> , 39, 488-514	4.9	10
94	Regio-controllable Cobalt-Catalyzed Sequential Hydrosilylation/Hydroboration of Arylacetylenes. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 22628-22634	3.6	2
93	Stereo- and Enantioselective Benzylic C <sub>sp</sub> Alkenylation via Photoredox/Nickel Dual Catalysis. <i>ACS Catalysis</i> , <b>2021</b> , 11, 11059-11065	13.1	12
92	Iron-Catalyzed Highly Enantioselective Hydrogenation of Alkenes. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12433-12438	16.4	5
91	Cobalt-Catalyzed Asymmetric 1,4-Reduction of $\beta$ -Dialkyl $\alpha$ -Unsaturated Esters with PMHS. <i>European Journal of Organic Chemistry</i> , <b>2021</b> , 2021, 4861-4864	3.2	1
90	Regio-controllable Cobalt-Catalyzed Sequential Hydrosilylation/Hydroboration of Arylacetylenes. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 22454-22460	16.4	9
89	Markovnikov Hydrosilylation of Alkynes with Tertiary Silanes via N-Heterocyclic Carbene-Promoted Dinuclear Cobalt Carbonyl Catalysis. <i>Chinese Journal of Organic Chemistry</i> , <b>2021</b> , 41, 4091	3	
88	Iron-Catalyzed Asymmetric Hydrosilylation of Vinylcyclopropanes via Stereospecific C-C Bond Cleavage. <i>IScience</i> , <b>2020</b> , 23, 100985	6.1	13
87	Highly Enantioselective Cobalt-Catalyzed Hydroboration of Diaryl Ketones. <i>Organic Letters</i> , <b>2020</b> , 22, 2532-2536	6.2	18
86	Ligand-promoted cobalt-catalyzed radical hydroamination of alkenes. <i>Nature Communications</i> , <b>2020</b> , 11, 783	17.4	41
85	Application of Pinacolborane in Catalytic Enantioselective Hydroboration of Ketones and Imines. <i>Chinese Journal of Organic Chemistry</i> , <b>2020</b> , 40, 3596	3	8

84	Recent advances in metal-catalysed asymmetric sequential double hydrofunctionalization of alkynes. <i>Chemical Communications</i> , <b>2020</b> , 56, 2229-2239	5.8	31
83	Cobalt-Catalyzed Migrational Isomerization of Styrenes. <i>Organic Letters</i> , <b>2020</b> , 22, 837-841	6.2	23
82	Cobalt-Catalyzed Markovnikov Selective Sequential Hydrogenation/Hydrohydrazidation of Aliphatic Terminal Alkynes. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 14455-14460	16.4	29
81	How Solvents Control the Stereospecificity of Ni-Catalyzed Miyaura Borylation of Allylic Pivalates. <i>ACS Catalysis</i> , <b>2019</b> , 9, 9589-9598	13.1	14
80	Controllable Intramolecular Unactivated C(sp <sup>3</sup> )-H Amination and Oxygenation of Carbamates. <i>Organic Letters</i> , <b>2019</b> , 21, 880-884	6.2	21
79	Visible light promoted difunctionalization reactions of alkynes. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 1003-1019	11.3	36
78	Cobalt-Catalyzed Asymmetric Markovnikov Hydroboration of Styrenes. <i>ACS Catalysis</i> , <b>2019</b> , 9, 4025-4029	13.1	34
77	Cobalt-Catalyzed Asymmetric Synthesis of gem-Bis(silyl)alkanes by Double Hydrosilylation of Aliphatic Terminal Alkynes. <i>Chem</i> , <b>2019</b> , 5, 881-895	16.2	66
76	Enantioselective benzylic C-H arylation via photoredox and nickel dual catalysis. <i>Nature Communications</i> , <b>2019</b> , 10, 3549	17.4	81
75	Cobalt-Catalyzed Dehydrogenative Silylation of Vinylarenes. <i>Chinese Journal of Organic Chemistry</i> , <b>2019</b> , 39, 1704	3	6
74	Ketones and Aldehydes as Alkyl Radical Equivalents for Direct C-H Alkylation of Heteroarenes. <i>Chinese Journal of Organic Chemistry</i> , <b>2019</b> , 39, 3312	3	3
73	Highly Regioselective Sequential 1,1-Dihydrosilylation of Terminal Aliphatic Alkynes with Primary Silanes. <i>Chinese Journal of Chemistry</i> , <b>2019</b> , 37, 457-461	4.9	36
72	Iron-Catalyzed Highly Enantioselective Hydrosilylation of Unactivated Terminal Alkenes. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 5014-5017	16.4	94
71	Nickel-catalyzed enantioselective sequential Nazarov cyclization/decarboxylation. <i>Organic Chemistry Frontiers</i> , <b>2018</b> , 5, 1763-1767	5.2	8
70	10 gram-scale synthesis of a chiral oxazoline iminopyridine ligand and its applications. <i>Organic Chemistry Frontiers</i> , <b>2018</b> , 5, 247-253	5.2	11
69	A general protocol for radical anion [3 + 2] cycloaddition enabled by tandem Lewis acid photoredox catalysis. <i>Synthesis</i> , <b>2018</b> , 50, 539-547	2.9	18
68	Asymmetric hydrofunctionalization of minimally functionalized alkenes via earth abundant transition metal catalysis. <i>Organic Chemistry Frontiers</i> , <b>2018</b> , 5, 260-272	5.2	136
67	Enantioselective Cobalt-Catalyzed Sequential Nazarov Cyclization/Electrophilic Fluorination: Access to Chiral $\beta$ -Fluorocyclopentenones. <i>Organic Letters</i> , <b>2018</b> , 20, 4028-4031	6.2	20

66	Recent Advances in Hydrometallation of Alkenes and Alkynes via the First Row Transition Metal Catalysis. <i>Chinese Journal of Chemistry</i> , <b>2018</b> , 36, 1075-1109	4.9	192
65	Asymmetric remote C-H borylation of internal alkenes via alkene isomerization. <i>Nature Communications</i> , <b>2018</b> , 9, 3939	17.4	87
64	Visible Light-Promoted Three-Component Carboazidation of Unactivated Alkenes with TMSN <sub>3</sub> and Acrylonitrile. <i>Chinese Journal of Chemistry</i> , <b>2018</b> , 36, 1017-1023	4.9	25
63	Nickel/Copper Dual Catalysis for Sequential Nazarov Cyclization/Decarboxylative Aldol Reaction. <i>Organic Letters</i> , <b>2018</b> , 20, 5709-5713	6.2	4
62	Nickel-Catalyzed C <sub>H</sub> Heteroarylation of Chiral Oxazolines. <i>Asian Journal of Organic Chemistry</i> , <b>2018</b> , 7, 542-544	3	6
61	Regio- and Enantioselective Cobalt-Catalyzed Sequential Hydrosilylation/Hydrogenation of Terminal Alkynes. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 630-633	3.6	41
60	Iron-Catalyzed, Markovnikov-Selective Hydroboration of Styrenes. <i>Organic Letters</i> , <b>2017</b> , 19, 969-971	6.2	45
59	Recent advances in chiral imino-containing ligands for metal-catalyzed asymmetric transformations. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 2280-2306	3.9	20
58	Regio- and Enantioselective Cobalt-Catalyzed Sequential Hydrosilylation/Hydrogenation of Terminal Alkynes. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 615-618	16.4	130
57	Cobalt-Catalyzed Ligand-Controlled Regioselective Hydroboration/Cyclization of 1,6-Enynes. <i>ACS Catalysis</i> , <b>2017</b> , 7, 1181-1185	13.1	64
56	Visible-Light-Promoted Metal-Free Aerobic Hydroxyazidation of Alkenes. <i>ACS Catalysis</i> , <b>2017</b> , 7, 8362-8365	3.5	53
55	Visible light-promoted dihydroxylation of styrenes with water and dioxygen. <i>Chemical Communications</i> , <b>2017</b> , 53, 12634-12637	5.8	25
54	Iron-Catalyzed Hydroboration of Vinylcyclopropanes. <i>Organic Letters</i> , <b>2017</b> , 19, 5422-5425	6.2	40
53	Cobalt-Catalyzed Asymmetric Sequential Hydroboration/Hydrogenation of Internal Alkynes. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 15316-15319	16.4	109
52	Intermolecular [2 + 2] Cycloaddition of 1,4-Dihydropyridines with Olefins via Energy Transfer. <i>Organic Letters</i> , <b>2017</b> , 19, 5888-5891	6.2	26
51	Recent Advances in Nitrogen-Nitrogen Bond Formation. <i>Synthesis</i> , <b>2017</b> , 49, 3835-3847	2.9	20
50	Highly Enantioselective Cobalt-Catalyzed Hydrosilylation of Alkenes. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 9439-9442	16.4	129
49	Visible-Light-Promoted Aerobic Homogenous Oxygenation Reactions. <i>Chinese Journal of Organic Chemistry</i> , <b>2017</b> , 37, 251	3	22

48	Dual-Stereocontrol Asymmetric Cobalt-Catalyzed Hydroboration of Sterically Hindered Styrenes. <i>ACS Catalysis</i> , <b>2016</b> , 6, 6596-6600	13.1	74
47	Iminophenyl Oxazolinyphenylamine for Enantioselective Cobalt-Catalyzed Hydrosilylation of Aryl Ketones. <i>Organic Letters</i> , <b>2016</b> , 18, 4658-61	6.2	40
46	Cobalt-Catalyzed Hydrosilylation/Cyclization of 1,6-Enynes. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 8858-8866	4.9	33
45	Highly Chemo-, Regio-, and Stereoselective Cobalt-Catalyzed Markovnikov Hydrosilylation of Alkynes. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10993-10996	3.6	38
44	Highly Chemo-, Regio-, and Stereoselective Cobalt-Catalyzed Markovnikov Hydrosilylation of Alkynes. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10835-8	16.4	131
43	Visible-Light Promoted Distereodivergent Intramolecular Oxyamidation of Alkenes. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 18695-18699	4.8	33
42	Cobalt-Catalyzed Asymmetric Hydrogenation of 1,1-Diarylethenes. <i>Organic Letters</i> , <b>2016</b> , 18, 1594-7	6.2	101
41	Visible-Light-Promoted Oxidative [4 + 2] Cycloadditions of Aryl Silyl Enol Ethers. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 7288-300	4.2	12
40	Reductive Cyclization of 1,6- and 1,7-Enynes Catalyzed by Iron Complexes. <i>Synthesis</i> , <b>2016</b> , 48, 2837-2844	4.9	11
39	Visible-Light-Promoted Metal-Free Aerobic Oxidation of Primary Amines to Acids and Lactones. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 17566-17570	4.8	16
38	Iron-catalyzed asymmetric hydrosilylation of 1,1-disubstituted alkenes. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 4661-4	16.4	119
37	Catalytic enantioselective organic transformations via visible light photocatalysis. <i>Organic Chemistry Frontiers</i> , <b>2015</b> , 2, 179-190	5.2	128
36	Iron-Catalyzed Asymmetric Hydrosilylation of 1,1-Disubstituted Alkenes. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 4744-4747	3.6	30
35	Palladium-Catalyzed C-2 C-H Heteroarylation of Chiral Oxazolines: Diverse Synthesis of Chiral Oxazoline Ligands. <i>Organic Letters</i> , <b>2015</b> , 17, 5939-41	6.2	25
34	[3+2] Redox-Neutral Cycloaddition of Nitrocyclopropanes with Styrenes by Visible-Light Photocatalysis. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 9676-80	4.8	24
33	Olefin difunctionalizations via visible light photocatalysis. <i>Tetrahedron Letters</i> , <b>2015</b> , 56, 3732-3742	2	160
32	Catalytic Asymmetric Hydrosilylation of 1,1-Disubstituted Alkenes. <i>Synlett</i> , <b>2015</b> , 26, 2332-2335	2.2	8
31	Cobalt-catalyzed asymmetric hydroboration of aryl ketones with pinacolborane. <i>Chemical Communications</i> , <b>2015</b> , 51, 5725-7	5.8	109

30	[2+2] cycloaddition of 1,3-dienes by visible light photocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 8991-4	16.4	122
29	[3+2] Photooxygenation of aryl cyclopropanes via visible light photocatalysis. <i>Tetrahedron</i> , <b>2014</b> , 70, 4270-4278	14	33
28	[2+2] Cycloaddition of 1,3-Dienes by Visible Light Photocatalysis. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 9137-9140	14	28
27	Asymmetric cobalt catalysts for hydroboration of 1,1-disubstituted alkenes. <i>Organic Chemistry Frontiers</i> , <b>2014</b> , 1, 1306-1309	5.2	108
26	Iminopyridine oxazoline iron catalyst for asymmetric hydroboration of 1,1-disubstituted aryl alkenes. <i>Organic Letters</i> , <b>2014</b> , 16, 6452-5	6.2	107
25	CuCl-catalyzed stereoselective conjugate addition of Grignard reagents to 2,3-allenoates. <i>Tetrahedron</i> , <b>2012</b> , 68, 2719-2724	2.4	2
24	Endoperoxide synthesis by photocatalytic aerobic [2 + 2 + 2] cycloadditions. <i>Organic Letters</i> , <b>2012</b> , 14, 1640-3	6.2	91
23	Visible Light Photocatalysis of [2+2] Styrene Cycloadditions by Energy Transfer. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 10475-10478	3.6	79
22	Visible light photocatalysis of [2+2] styrene cycloadditions by energy transfer. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 10329-32	16.4	281
21	Intramolecular Pd(II)-catalyzed aerobic oxidative amination of alkenes: synthesis of six-membered N-heterocycles. <i>Organic Letters</i> , <b>2012</b> , 14, 1234-7	6.2	77
20	[3+2] cycloadditions of aryl cyclopropyl ketones by visible light photocatalysis. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1162-4	16.4	245
19	[2+2] cycloadditions by oxidative visible light photocatalysis. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 8572-4	16.4	339
18	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 H <sub>2</sub> O. <i>Journal of Organic Chemistry</i> , <b>2010</b> , 75, 2589-98	4.2	62
17	Ferric Chloride Hexahydrate-Catalyzed Highly Regio- and Stereoselective Conjugate Addition Reaction of 2,3-Allenoates with Grignard Reagents: An Efficient Synthesis of $\beta$ -Alkenoates. <i>Advanced Synthesis and Catalysis</i> , <b>2009</b> , 351, 1946-1954	5.6	32
16	Studies on the tandem reaction of 4-Aryl-2,3-allenoates with organozinc reagents: a facile route to polysubstituted naphthols. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 11083-6	4.8	34
15	Regioselective copper-catalyzed chlorination and bromination of arenes with O(2) as the oxidant. <i>Chemical Communications</i> , <b>2009</b> , 6460-2	5.8	153
14	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. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 3258-63	3.9	25
13	An efficient double 1,2-addition reaction of 2,3-allenoates with allyl magnesium chloride. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 9486-9	4.2	31

12	Controllable highly stereoselective reaction of in situ generated magnesium dienolate intermediates with different electrophiles. <i>Organic Letters</i> , <b>2008</b> , 10, 3517-20	6.2	25
11	Metal-catalyzed enantioselective allylation in asymmetric synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 258-97	16.4	1159
10	Highly regio- and stereoselective double Michael addition-cyclization of 2,3-allenoates with organozinc compounds: efficient synthesis of 5-benzylidenecyclohex-2-enones. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 6045-8	16.4	25
9	Metallkatalysierte enantioselektive Allylierungen in der asymmetrischen Synthese. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 264-303	3.6	393
8	Highly Regio- and Stereoselective Double Michael Addition-Cyclization of 2,3-Allenates with Organozinc Compounds: Efficient Synthesis of 5-Benzylidenecyclohex-2-enones. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 6134-6137	3.6	14
7	Iron-catalyzed highly regio- and stereoselective conjugate addition of 2,3-allenoates with Grignard reagents. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 14546-7	16.4	90
6	Highly Regio- and Stereoselective Copper(I) Chloride-Mediated Carbometallation of 2,3-Allenols with Grignard Reagents. <i>Advanced Synthesis and Catalysis</i> , <b>2007</b> , 349, 1225-1230	5.6	23
5	Copper(I)-Mediated Highly Stereoselective syn-Carbometallation of Secondary or Tertiary Propargylic Alcohols with Primary Grignard Reagents in Toluene with a High Linear Regioselectivity. <i>Advanced Synthesis and Catalysis</i> , <b>2006</b> , 348, 1894-1898	5.6	15
4	Studies on the Cu(I)-catalyzed regioselective anti-carbometallation of secondary terminal propargylic alcohols. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 2655-60	4.2	50
3	Novozym 435-catalyzed kinetic resolution of allenols. A facile route for the preparation of optically active allenols or allenyl acetates. <i>Tetrahedron</i> , <b>2004</b> , 60, 11879-11887	2.4	21
2	Cu- and Pd-catalyzed asymmetric one-pot tandem addition-cyclization reaction of 2-(2-alkadienyl)-beta-keto esters, organic halides, and dibenzyl azodicarboxylate: an effective protocol for the enantioselective synthesis of pyrazolidine derivatives. <i>Organic Letters</i> , <b>2004</b> , 6, 2193-6	6.2	91
1	Metal-Catalyzed Hydroboration Reactions of Alkyne and Subsequent Asymmetric Transformation1-35		