

Zhen Liu

List of Publications by Year in descending order

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31
papers

2,364
citations

201674

27
h-index

454955

30
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34
all docs

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docs citations

34
times ranked

1723
citing authors

#	ARTICLE	IF	CITATIONS
1	An Enzymatic Platform for Primary Amination of 1-Aryl-2-alkyl Alkynes. <i>Journal of the American Chemical Society</i> , 2022, 144, 80-85.	13.7	41
2	New-to-nature chemistry from old protein machinery: carbene and nitrene transferases. <i>Current Opinion in Biotechnology</i> , 2021, 69, 43-51.	6.6	57
3	Biocatalytic, Intermolecular C-H Bond Functionalization for the Synthesis of Enantioenriched Amides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24864-24869.	13.8	39
4	Dual-function enzyme catalysis for enantioselective carbon-nitrogen bond formation. <i>Nature Chemistry</i> , 2021, 13, 1166-1172.	13.6	48
5	Transition-Metal-Catalyzed 1,2-Carboboration of Alkenes: Strategies, Mechanisms, and Stereocontrol. <i>Israel Journal of Chemistry</i> , 2020, 60, 219-229.	2.3	83
6	Controlling cyclization pathways in palladium(<i>ii</i>)-catalyzed intramolecular alkene hydro-functionalization via substrate directivity. <i>Chemical Science</i> , 2020, 11, 11307-11314.	7.4	19
7	Palladium(0)-Catalyzed Directed <i>syn</i> -1,2-Carboboration and Silylation: Alkene Scope, Applications in Dearomatization, and Stereocontrol by a Chiral Auxiliary. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17068-17073.	13.8	101
8	Palladium(0)-Catalyzed Directed <i>syn</i> -1,2-Carboboration and Silylation: Alkene Scope, Applications in Dearomatization, and Stereocontrol by a Chiral Auxiliary. <i>Angewandte Chemie</i> , 2019, 131, 17224-17229.	2.0	30
9	Directed, Palladium(II)-Catalyzed Enantioselective <i>anti</i> -Carboboration of Alkenyl Carbonyl Compounds. <i>ACS Catalysis</i> , 2019, 9, 3260-3265.	11.2	85
10	Catalytic Carbo- and Aminoboration of Alkenyl Carbonyl Compounds via Five- and Six-Membered Palladacycles. <i>Journal of the American Chemical Society</i> , 2018, 140, 3223-3227.	13.7	118
11	Catalytic, Enantioselective Synthesis of Allenyl Boronates. <i>ACS Catalysis</i> , 2018, 8, 3650-3654.	11.2	75
12	Directed, Palladium(II)-Catalyzed Intermolecular Aminohydroxylation of Alkenes Using a Mild Oxidation System. <i>Organic Letters</i> , 2018, 20, 3853-3857.	4.6	40
13	Palladium(II)-Catalyzed Directed <i>anti</i> -Hydrochlorination of Unactivated Alkynes with HCl. <i>Journal of the American Chemical Society</i> , 2017, 139, 5183-5193.	13.7	70
14	Catalytic Intermolecular Carboamination of Unactivated Alkenes via Directed Aminopalladation. <i>Journal of the American Chemical Society</i> , 2017, 139, 11261-11270.	13.7	165
15	Directed, Regiocontrolled Hydroamination of Unactivated Alkenes via Protodepalladation. <i>Journal of the American Chemical Society</i> , 2016, 138, 5805-5808.	13.7	179
16	Palladium(II)-Catalyzed Regioselective <i>syn</i> -Hydroarylation of Disubstituted Alkynes Using a Removable Directing Group. <i>Journal of the American Chemical Society</i> , 2016, 138, 13076-13081.	13.7	88
17	Rh(<i>i</i>)-Catalyzed coupling of 2-bromoethyl aryldiazoacetates with tertiary propargyl alcohols through carbene migratory insertion. <i>Organic Chemistry Frontiers</i> , 2016, 3, 1691-1698.	4.5	7
18	Catalytic, Regioselective Hydrocarbofunctionalization of Unactivated Alkenes with Diverse C-H Nucleophiles. <i>Journal of the American Chemical Society</i> , 2016, 138, 14705-14712.	13.7	151

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19	Rhodium(I)-Catalyzed C-C Bond Activation of Siloxyvinylcyclopropanes with Diazoesters. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15401-15405.	13.8	27
20	β,γ -Vicinal Dicarbofunctionalization of Alkenyl Carbonyl Compounds via Directed Nucleopalladation. <i>Journal of the American Chemical Society</i> , 2016, 138, 15122-15125.	13.7	156
21	Rhodium(I)-Catalyzed Sequential C(sp) ² -C(sp ³) and C(sp ³)-C(sp ³) Bond Formation through Migratory Carbene Insertion. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7891-7894.	13.8	67
22	Pd-catalyzed cross-coupling of terminal alkynes with ene-yne-ketones: access to conjugated enynes via metal carbene migratory insertion. <i>Chemical Communications</i> , 2015, 51, 11233-11235.	4.1	50
23	RhI-Catalyzed Stille-Type Coupling of Diazoesters with Aryl Trimethylstannanes. <i>Australian Journal of Chemistry</i> , 2015, 68, 1379.	0.9	10
24	Rh(I)-Catalyzed Cross-Coupling of β -Diazoesters with Arylsiloxanes. <i>Organic Letters</i> , 2015, 17, 956-959.	4.6	31
25	Palladium-Catalyzed Oxidative Cross-Coupling of Conjugated Enynones with Organoboronic Acids. <i>Journal of Organic Chemistry</i> , 2015, 80, 7856-7864.	3.2	40
26	Ir(III)-Catalyzed Aromatic C-H Bond Functionalization via Metal Carbene Migratory Insertion. <i>Journal of Organic Chemistry</i> , 2015, 80, 223-236.	3.2	142
27	Oxidative Cross-Coupling of Allenyl Ketones and Organoboronic Acids: Expedient Synthesis of Highly Substituted Furans. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3917-3921.	13.8	74
28	Palladium-Catalyzed Cross-Coupling Reaction of Diazo Compounds and Vinyl Boronic Acids: An Approach to 1,3-Diene Compounds. <i>Journal of Organic Chemistry</i> , 2014, 79, 7711-7717.	3.2	33
29	Formal Carbene Insertion into C-C Bond: Rh(I)-Catalyzed Reaction of Benzocyclobutenols with Diazoesters. <i>Journal of the American Chemical Society</i> , 2014, 136, 3013-3015.	13.7	182
30	Palladium-Catalyzed Carbene Migratory Insertion Using Conjugated Ene-Yne-Ketones as Carbene Precursors. <i>Journal of the American Chemical Society</i> , 2013, 135, 13502-13511.	13.7	153
31	Biocatalytic, Intermolecular C-H Bond Functionalization for the Synthesis of Enantioenriched Amides. <i>Angewandte Chemie</i> , 0, , .	2.0	2