

# Xuebing Leng

## List of Publications by Citations

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74  
papers

1,761  
citations

24  
h-index

39  
g-index

76  
ext. papers

2,139  
ext. citations

9.3  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
74	Cooperative dual palladium/silver catalyst for direct difluoromethylation of aryl bromides and iodides. <i>Nature Communications</i> , <b>2014</b> , 5, 5405	17.4	183
73	Copper-promoted sandmeyer difluoromethylthiolation of aryl and heteroaryl diazonium salts. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 7648-52	16.4	98
72	Reactivity of a scandium terminal imido complex towards unsaturated substrates. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 7677-80	16.4	84
71	Transfer Hydrogenation of Alkenes Using Ethanol Catalyzed by a NCP Pincer Iridium Complex: Scope and Mechanism. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4417-4429	16.4	82
70	Well-Defined, Shelf-Stable (NHC)Ag(CF <sub>2</sub> H) Complexes for Difluoromethylation. <i>Organometallics</i> , <b>2015</b> , 34, 3065-3071	3.8	74
69	Iridium-catalyzed selective $\alpha$ -alkylation of unactivated amides with primary alcohols. <i>Organic Letters</i> , <b>2013</b> , 15, 1144-7	6.2	72
68	Versatile reactivity of a four-coordinate scandium phosphinidene complex: reduction, addition, and CO activation reactions. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14784-96	16.4	68
67	Controllable catalytic difluorocarbene transfer enables access to diversified fluoroalkylated arenes. <i>Nature Chemistry</i> , <b>2019</b> , 11, 948-956	17.6	66
66	An Agostic Iridium Pincer Complex as a Highly Efficient and Selective Catalyst for Monoisomerization of 1-Alkenes to trans-2-Alkenes. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 1614-1618	16.4	59
65	Iridium complexes of new NCP pincer ligands: catalytic alkane dehydrogenation and alkene isomerization. <i>Chemical Communications</i> , <b>2014</b> , 50, 11056-9	5.8	58
64	A Scandium Complex Bearing Both Methylidene and Phosphinidene Ligands: Synthesis, Structure, and Reactivity. <i>Organometallics</i> , <b>2015</b> , 34, 470-476	3.8	44
63	Synthesis of Pincer Hydrido Ruthenium Olefin Complexes for Catalytic Alkane Dehydrogenation. <i>Organometallics</i> , <b>2016</b> , 35, 181-188	3.8	43
62	Well-defined soluble P(3-)-containing rare-earth-metal compounds. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 11227-9	16.4	43
61	Highly Reactive Scandium Phosphinoalkylidene Complex: C-H and H-H Bonds Activation. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1081-1084	16.4	40
60	Side Arm Twist on Zn-Catalyzed Hydrosilylative Reduction of CO <sub>2</sub> to Formate and Methanol Equivalents with High Selectivity and Activity. <i>ACS Catalysis</i> , <b>2018</b> , 8, 4710-4718	13.1	35
59	Asymmetric Total Synthesis of Arcutinidine, Arcutinine, and Arcutine. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 13718-13723	16.4	34
58	Non-Pincer-Type Mononuclear Scandium Alkylidene Complexes: Synthesis, Bonding, and Reactivity. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 1258-61	4.8	33

57	Divalent Ytterbium Complex-Catalyzed Homo- and Cross-Coupling of Primary Arylsilanes. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 138-142	16.4	33
56	Nonchelated Phosphoniomethylidene Complexes of Scandium and Lutetium. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17759-17762	16.4	32
55	An yttrium hydride-silane complex as a structural model for a $\sigma$ -bond metathesis transition state. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 4243-6	16.4	30
54	A Two-Coordinate Iron(II) Imido Complex with NHC Ligation: Synthesis, Characterization, and Its Diversified Reactivity of Nitrene Transfer and C-H Bond Activation. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 7634-7644	5.1	29
53	A Key Intermediate in Copper-Mediated Arene Trifluoromethylation, $[n\text{Bu N}][\text{Cu}(\text{Ar})(\text{CF}_3)]$ : Synthesis, Characterization, and C(sp <sup>3</sup> )-CF Reductive Elimination. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 8510-8514	16.4	29
52	Copper-Promoted Sandmeyer Difluoromethylthiolation of Aryl and Heteroaryl Diazonium Salts. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 7758-7762	3.6	28
51	C(sp <sup>3</sup> )-CF Reductive Elimination from a Five-Coordinate Neutral Copper(III) Complex. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 9785-9791	16.4	25
50	Reactivity of a Scandium Terminal Imido Complex Towards Unsaturated Substrates. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 7819-7822	3.6	23
49	Catalytic alkane transfer-dehydrogenation by PSCOP iridium pincer complexes. <i>Polyhedron</i> , <b>2016</b> , 116, 12-19	2.7	20
48	De Novo Construction of Catenanes with Dissymmetric Cages by Space-Discriminative Post-Assembly Modification. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 7113-7121	16.4	20
47	Synthesis and Reactivity of a Scandium Terminal Hydride: H <sub>2</sub> Activation by a Scandium Terminal Imido Complex. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 14728-14732	4.8	19
46	Formation and Reactivity of a C-P-N-Sc Four-Membered Ring: H <sub>2</sub> , O <sub>2</sub> , CO, Phenylsilane, and Pinacolborane Activation. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5424-5428	4.8	18
45	C $\equiv$ O or C $\equiv$ N Bond Cleavage of Phosphine Oxides Mediated by an Yttrium Hydride. <i>Organometallics</i> , <b>2012</b> , 31, 4574-4578	3.8	17
44	Palladium-catalysed enantioselective diacetoxylation of terminal alkenes. <i>Nature Catalysis</i> , <b>2021</b> , 4, 172-179	3.6	16
43	Substrate Redox Non-innocence Inducing Stepwise Oxidative Addition Reaction: Nitrosoarene C-N Bond Cleavage on Low-Coordinate Cobalt(0) Species. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7731-7735	16.4	15
42	Three-Coordinate Iron(0) Complexes with $\sigma$ -Heterocyclic Carbene and Vinyltrimethylsilane Ligation: Synthesis, Characterization, and Ligand Substitution Reactions. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 13129-13141	5.1	14
41	N-Bridged Pincer Iridium Complexes for Highly Efficient Alkane Dehydrogenation and the Relevant Linker Effects. <i>ACS Catalysis</i> , <b>2020</b> , 10, 6475-6487	13.1	14
40	Rare-earth metal hydrides supported by silicon-bridged boratabenzene fluorenyl ligands: synthesis, structure and reactivity. <i>Dalton Transactions</i> , <b>2017</b> , 46, 1218-1227	4.3	13

39	Reactivity of a Two-Coordinate Cobalt(0) Cyclic (Alkyl)(amino)carbene Complex. <i>Organometallics</i> , <b>2020</b> , 39, 729-739	3.8	13
38	Synthesis and versatile reactivity of scandium phosphinophosphinidene complexes. <i>Nature Communications</i> , <b>2020</b> , 11, 2916	17.4	12
37	Monomeric Rare-Earth Metal Silyl-Thiophosphinoyl-Alkylidene Complexes: Synthesis, Structure, and Reactivity. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 13903-13917	4.8	12
36	Well-Defined Soluble P3EContaining Rare-Earth-Metal Compounds. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 11423-11425	3.6	12
35	An Amine-Assisted Ionic Monohydride Mechanism Enables Selective Alkyne $\pi$ -Semihydrogenation with Ethanol: From Elementary Steps to Catalysis. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 4824-4836	16.4	12
34	Synthesis and Structure of Silicon-Bridged Boratabenzene Fluorenyl Rare-Earth Metal Complexes. <i>Organometallics</i> , <b>2016</b> , 35, 1995-2002	3.8	12
33	Samarium(II) Monoalkyl Complex Supported by a $\beta$ -Diketiminato-Based Tetradentate Ligand: Synthesis, Structure, and Catalytic Hydrosilylation of Internal Alkynes. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 5494-5499	4.8	11
32	An Yttrium Hydride-Bilane Complex as a Structural Model for a $\beta$ -Bond Metathesis Transition State. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 4337-4340	3.6	11
31	Reactions of Low-Coordinate Cobalt(0)-N-Heterocyclic Carbene Complexes with Primary Aryl Phosphines. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 15600-15609	5.1	11
30	Rare-earth/zinc heterometallic complexes containing both alkoxy-amino-bis(phenolato) and chiral salen ligands: synthesis and catalytic application for copolymerization of CO with cyclohexene oxide. <i>Dalton Transactions</i> , <b>2019</b> , 48, 10565-10573	4.3	10
29	Substitution reaction of triphenylphosphine oxide with rare-earth metal phosphido methyl complexes. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 7582-7588	3.6	10
28	Dianionic Carbon-Bridged Scandium-Copper/Silver Heterobimetallic Complexes: Synthesis, Bonding, and Reactivity. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 5637-5643	4.8	10
27	Boron-Oxygen Bond Cleavage of Pinacolborane and Catecholborane Mediated by a Scandium Phosphinidene Complex. <i>Chinese Journal of Chemistry</i> , <b>2014</b> , 32, 752-756	4.9	10
26	Cobalt(I)- and Rhodium(I)-Mediated Dearylation of N-Aryl N-Heterocyclic Carbene Ligands. <i>Organometallics</i> , <b>2020</b> , 39, 2871-2877	3.8	10
25	Hafnium(II) Complexes with Cyclic (Alkyl)(amino)carbene Ligation. <i>Organometallics</i> , <b>2018</b> , 37, 4186-4188	3.8	10
24	Are Sc $\sigma$ and Sc $\pi$ Bonds Reactive in Scandium Phosphinoalkylidene Complex? Insights on a Versatile Reactivity. <i>Chinese Journal of Chemistry</i> , <b>2018</b> , 36, 904-908	4.9	10
23	Cyclometallation reactions of a three-coordinate cobalt(I) complex bearing a nonsymmetric N-heterocyclic carbene ligand. <i>Dalton Transactions</i> , <b>2019</b> , 48, 9676-9683	4.3	8
22	Scandium terminal imido complex induced intramolecular C-N bond cleavage and transformation. <i>Science China Chemistry</i> , <b>2014</b> , 57, 1098-1105	7.9	8

21	Markovnikov Hydrosilylation of Alkynes with Tertiary Silanes Catalyzed by Dinuclear Cobalt Carbonyl Complexes with NHC Ligation. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12847-12856	16.4	8
20	Divalent Ytterbium Iodide Supported by a Diketiminato Based Tridentate Ligand: Synthesis, Structure and Small Molecule Activation. <i>Chinese Journal of Chemistry</i> , <b>2020</b> , 38, 247-253	4.9	7
19	Scandium-Terminal Boronylphosphinidene Complex. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2705-2709	16.4	5
18	De Novo Construction of Catenanes with Dissymmetric Cages by Space-Discriminative Post-Assembly Modification. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 7179-7187	3.6	4
17	C(sp <sup>2</sup> )-CF <sub>3</sub> Reductive Elimination from Well-Defined Argentate(III) Complexes [nBu <sub>4</sub> N][Ag(Ar)(CF <sub>3</sub> ) <sub>3</sub> ]. <i>Organometallics</i> , <b>2021</b> , 40, 1713-1718	3.8	4
16	Scandium Phosphonioketene: Synthesis, Bonding and Reactivity. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 10304-10308	4.8	3
15	Regio- and enantioselective umpolung gem-difluoroallylation of hydrazones via palladium catalysis enabled by N-heterocyclic carbene ligand. <i>Nature Communications</i> , <b>2021</b> , 12, 6551	17.4	3
14	C(sp <sup>2</sup> )-X (X = Cl, Br, and I) Reductive Eliminations from Well-Defined Gold(III) Complexes: Concerted or Dissociation Pathways?. <i>Organometallics</i> , <b>2021</b> , 40, 2231-2239	3.8	3
13	Divalent Ytterbium Hydrido Complex Supported by a Diketiminato-Based Tetradentate Ligand: Synthesis, Structure, and Reactivity. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 13913-13919	5.1	3
12	An Isolable Mononuclear Palladium(I) Amido Complex. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10751-10759	16.4	3
11	Mechanistic Insight into Copper-Mediated Trifluoromethylation of Aryl Halides: The Role of CuI. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 14367-14378	16.4	3
10	Catalytic Method for the Synthesis of Deuterium-Labeled $\alpha$ -Heterocyclic Carbenes Enabled by a Coordinatively Unsaturated Ruthenium $\alpha$ -Heterocyclic Carbene Catalyst. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 19956-19965	16.4	2
9	Organocalcium Complex-Catalyzed Selective Redistribution of ArSiH <sub>3</sub> or Ar(alkyl)SiH <sub>2</sub> to Ar <sub>3</sub> SiH or Ar <sub>2</sub> (alkyl)SiH. <i>ACS Catalysis</i> , <b>2021</b> , 11, 6348-6356	13.1	2
8	Insertion of Metal-Substituted Silylene into Naphthalene's Aromatic Ring and Subsequent Rearrangement for Silaspiro-Benzocycloheptenyl and Cyclobutenosilaindan Derivatives. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 3189-3195	16.4	2
7	Isolable Anion Radicals of Nitrosoarenes. <i>Chinese Journal of Chemistry</i> , <b>2020</b> , 38, 158-162	4.9	1
6	$\sigma$ -agostic interactions and C-H bond activation in scandium cyclopropyl complexes. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 4822-4831	6.8	1
5	Noninnocent Behavior of a (3-Imino)indol-2-yl Ligand in Metal Complexes. <i>Organometallics</i> , <b>2022</b> , 41, 480-485	3.8	1
4	Synthesis, Characterization, and Reactivity of a Hydrido- and Imido-Bridged Dinuclear Ytterbium(III) Complex. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> , e202200540	16.4	1

- 3 Hydrogenation of Alkenes Catalyzed by Rare-earth Metal Phosphinophosphinidene Complexes: 1,2-Addition/elimination vs  $\sigma$ -Bond Metathesis Mechanism. *CCS Chemistry*, 1-25 7.2 ○
- 2 Insertion of Metal-Substituted Silylene into Naphthalene's Aromatic Ring and Subsequent Rearrangement for Silaspiro-Benzocycloheptenyl and Cyclobutenosilaindan Derivatives. *Angewandte Chemie*, **2021**, 133, 3226-3232 3.6 ○
- 1 A Key Intermediate in Copper-Mediated Arene Trifluoromethylation,  $[\text{nBu}_4\text{N}][\text{Cu}(\text{Ar})(\text{CF}_3)_3]$ : Synthesis, Characterization, and  $\text{C}(\text{sp}^2)\text{-CF}_3$  Reductive Elimination. *Angewandte Chemie*, **2019**, 131, 8598 3.6