

# Xuebing Leng

## List of Publications by Year in descending order

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72  
papers

2,523  
citations

185998

28  
h-index

214527

47  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2156  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative dual palladium/silver catalyst for direct difluoromethylation of aryl bromides and iodides. <i>Nature Communications</i> , 2014, 5, 5405.	5.8	220
2	Transfer Hydrogenation of Alkenes Using Ethanol Catalyzed by a NCP Pincer Iridium Complex: Scope and Mechanism. <i>Journal of the American Chemical Society</i> , 2018, 140, 4417-4429.	6.6	131
3	Controllable catalytic difluorocarbene transfer enables access to diversified fluoroalkylated arenes. <i>Nature Chemistry</i> , 2019, 11, 948-956.	6.6	125
4	Copper-Promoted Sandmeyer Difluoromethylthiolation of Aryl and Heteroaryl Diazonium Salts. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7648-7652.	7.2	122
5	Reactivity of a Scandium Terminal Imido Complex Towards Unsaturated Substrates. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7677-7680.	7.2	92
6	Well-Defined, Shelf-Stable (NHC)Ag(CF <sub>2</sub> H) Complexes for Difluoromethylation. <i>Organometallics</i> , 2015, 34, 3065-3071.	1.1	85
7	Iridium-Catalyzed Selective $\alpha$ -Alkylation of Unactivated Amides with Primary Alcohols. <i>Organic Letters</i> , 2013, 15, 1144-1147.	2.4	82
8	Versatile Reactivity of a Four-Coordinate Scandium Phosphinidene Complex: Reduction, Addition, and CO Activation Reactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 14784-14796.	6.6	77
9	An Agostic Iridium Pincer Complex as a Highly Efficient and Selective Catalyst for Monoisomerization of 1-Alkenes to <i>trans</i> -2-Alkenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1614-1618.	7.2	76
10	Iridium complexes of new NCP pincer ligands: catalytic alkane dehydrogenation and alkene isomerization. <i>Chemical Communications</i> , 2014, 50, 11056.	2.2	66
11	C(sp <sup>3</sup> )-CF <sub>3</sub> Reductive Elimination from a Five-Coordinate Neutral Copper(III) Complex. <i>Journal of the American Chemical Society</i> , 2020, 142, 9785-9791.	6.6	61
12	A Key Intermediate in Copper-Mediated Arene Trifluoromethylation, [ <i>n</i> -Bu <sub>4</sub> N][Cu(Ar)(CF <sub>3</sub> ) <sub>3</sub> ]: Synthesis, Characterization, and C(sp <sup>2</sup> )-CF <sub>3</sub> Reductive Elimination. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8510-8514.	7.2	57
13	Synthesis of Pincer Hydrido Ruthenium Olefin Complexes for Catalytic Alkane Dehydrogenation. <i>Organometallics</i> , 2016, 35, 181-188.	1.1	53
14	Highly Reactive Scandium Phosphinoalkylidene Complex: C-H and H-H Bonds Activation. <i>Journal of the American Chemical Society</i> , 2017, 139, 1081-1084.	6.6	51
15	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> , 2018, 8, 4710-4718.	5.5	51
16	A Scandium Complex Bearing Both Methylidene and Phosphinidene Ligands: Synthesis, Structure, and Reactivity. <i>Organometallics</i> , 2015, 34, 470-476.	1.1	50
17	Well-Defined Soluble P <sup>3+</sup> -Containing Rare-Earth Metal Compounds. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11227-11229.	7.2	49
18	Asymmetric Total Synthesis of Arcutinidine, Arcutinine, and Arcutine. <i>Journal of the American Chemical Society</i> , 2019, 141, 13718-13723.	6.6	49

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19	Divalent Ytterbium Complex-Catalyzed Homo- and Cross-Coupling of Primary Arylsilanes. <i>Journal of the American Chemical Society</i> , 2019, 141, 138-142.	6.6	47
20	Nonchelated Phosphoniomethylidene Complexes of Scandium and Lutetium. <i>Journal of the American Chemical Society</i> , 2017, 139, 17759-17762.	6.6	42
21	An Amine-Assisted Ionic Monohydride Mechanism Enables Selective Alkyne <i>cis</i> -Semihydrogenation with Ethanol: From Elementary Steps to Catalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 4824-4836.	6.6	42
22	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> , 2019, 58, 7634-7644.	1.9	39
23	Palladium-catalysed enantioselective diacetoxylation of terminal alkenes. <i>Nature Catalysis</i> , 2021, 4, 172-179.	16.1	38
24	Markovnikov Hydrosilylation of Alkynes with Tertiary Silanes Catalyzed by Dinuclear Cobalt Carbonyl Complexes with NHC Ligation. <i>Journal of the American Chemical Society</i> , 2021, 143, 12847-12856.	6.6	38
25	De Novo Construction of Catenanes with Dissymmetric Cages by Space-Discriminative Post-Assembly Modification. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7113-7121.	7.2	38
26	Non-Pincer-Type Mononuclear Scandium Alkylidene Complexes: Synthesis, Bonding, and Reactivity. <i>Chemistry - A European Journal</i> , 2016, 22, 1258-1261.	1.7	36
27	An Yttrium Hydride-Silane Complex as a Structural Model for a $\sigma$ -Bond Metathesis Transition State. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4243-4246.	7.2	34
28	Catalytic alkane transfer-dehydrogenation by PSCOP iridium pincer complexes. <i>Polyhedron</i> , 2016, 116, 12-19.	1.0	27
29	N-Bridged Pincer Iridium Complexes for Highly Efficient Alkane Dehydrogenation and the Relevant Linker Effects. <i>ACS Catalysis</i> , 2020, 10, 6475-6487.	5.5	25
30	Formation and Reactivity of a Cp*PnSc Four-Membered Ring: H <sub>2</sub> , O <sub>2</sub> , CO, Phenylsilane, and Pinacolborane Activation. <i>Chemistry - A European Journal</i> , 2017, 23, 5424-5428.	1.7	22
31	C-P or C-H Bond Cleavage of Phosphine Oxides Mediated by an Yttrium Hydride. <i>Organometallics</i> , 2012, 31, 4574-4578.	1.1	21
32	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> , 2021, 11, 6348-6356.	5.5	21
33	Monomeric Rare-Earth Metal Silyl-Thiophosphinoyl Alkylidene Complexes: Synthesis, Structure, and Reactivity. <i>Chemistry - A European Journal</i> , 2018, 24, 13903-13917.	1.7	20
34	Three-Coordinate Iron(0) Complexes with N-Heterocyclic Carbene and Vinyltrimethylsilane Ligation: Synthesis, Characterization, and Ligand Substitution Reactions. <i>Inorganic Chemistry</i> , 2019, 58, 13129-13141.	1.9	20
35	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> , 2017, 23, 14728-14732.	1.7	20
36	Rare-earth metal hydrides supported by silicon-bridged boratabenzene fluorenyl ligands: synthesis, structure and reactivity. <i>Dalton Transactions</i> , 2017, 46, 1218-1227.	1.6	19

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37	Reactions of Low-Coordinate Cobalt(0)-N-Heterocyclic Carbene Complexes with Primary Aryl Phosphines. <i>Inorganic Chemistry</i> , 2018, 57, 15600-15609.	1.9	18
38	Synthesis and versatile reactivity of scandium phosphinophosphinidene complexes. <i>Nature Communications</i> , 2020, 11, 2916.	5.8	18
39	Regio- and enantioselective umpolung gem-difluoroallylation of hydrazones via palladium catalysis enabled by N-heterocyclic carbene ligand. <i>Nature Communications</i> , 2021, 12, 6551.	5.8	18
40	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> , 2019, 141, 7731-7735.	6.6	17
41	Reactivity of a Two-Coordinate Cobalt(0) Cyclic (Alkyl)(amino)carbene Complex. <i>Organometallics</i> , 2020, 39, 729-739.	1.1	17
42	Scandium-Terminal Boronylphosphinidene Complex. <i>Journal of the American Chemical Society</i> , 2021, 143, 2705-2709.	6.6	17
43	Rare-earth/zinc heterometallic complexes containing both alkoxy-amino-bis(phenolato) and chiral salen ligands: synthesis and catalytic application for copolymerization of CO <sub>2</sub> with cyclohexene oxide. <i>Dalton Transactions</i> , 2019, 48, 10565-10573.	1.6	16
44	Cobalt(II)- and Rhodium(II)-Mediated Dearylation of N-Aryl N-Heterocyclic Carbene Ligands. <i>Organometallics</i> , 2020, 39, 2871-2877.	1.1	16
45	Synthesis and Structure of Silicon-Bridged Boratabenzene Fluorenyl Rare-Earth Metal Complexes. <i>Organometallics</i> , 2016, 35, 1995-2002.	1.1	15
46	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> , 2020, 26, 5494-5499.	1.7	15
47	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> , 2021, 60, 3189-3195.	7.2	15
48	Are Sc-C and Sc-P Bonds Reactive in Scandium Phosphinoalkylidene Complex? Insights on a Versatile Reactivity. <i>Chinese Journal of Chemistry</i> , 2018, 36, 904-908.	2.6	14
49	A Key Intermediate in Copper-Mediated Arene Trifluoromethylation, [ <i>n</i> -Bu <sub>4</sub> N][Cu(Ar)(CF <sub>3</sub> ) <sub>3</sub> ]: Synthesis, Characterization, and C(sp <sup>2</sup> ) <sup>+</sup> CF <sub>3</sub> Reductive Elimination. <i>Angewandte Chemie</i> , 2019, 131, 8598-8602.	1.6	14
50	Mechanistic Insight into Copper-Mediated Trifluoromethylation of Aryl Halides: The Role of CuI. <i>Journal of the American Chemical Society</i> , 2021, 143, 14367-14378.	6.6	14
51	Boron-Oxygen Bond Cleavage of Pinacolborane and Catecholborane Mediated by a Scandium Phosphinidene Complex. <i>Chinese Journal of Chemistry</i> , 2014, 32, 752-756.	2.6	13
52	Substitution reaction of triphenylphosphine oxide with rare-earth metal phosphido methyl complexes. <i>New Journal of Chemistry</i> , 2015, 39, 7582-7588.	1.4	13
53	Dianionic Carbon-Bridged Scandium-Copper/Silver Heterobimetallic Complexes: Synthesis, Bonding, and Reactivity. <i>Chemistry - A European Journal</i> , 2018, 24, 5637-5643.	1.7	13
54	Hafnium(II) Complexes with Cyclic (Alkyl)(amino)carbene Ligation. <i>Organometallics</i> , 2018, 37, 4186-4188.	1.1	12

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55	C(sp <sup>2</sup> )-CF <sub>3</sub> Reductive Elimination from Well-Defined Argentate(III) Complexes [i>n</i>Bu <sub>4</sub> N][Ag(Ar)(CF <sub>3</sub> ) <sub>3</sub> ]. <i>Organometallics</i> , 2021, 40, 1713-1718.	1.1	12
56	Cyclometallation reactions of a three-coordinate cobalt( <i>i</i> ) complex bearing a nonsymmetric N-heterocyclic carbene ligand. <i>Dalton Transactions</i> , 2019, 48, 9676-9683.	1.6	11
57	An Isolable Mononuclear Palladium(I) Amido Complex. <i>Journal of the American Chemical Society</i> , 2021, 143, 10751-10759.	6.6	11
58	Neutral <i>Five</i> -Coordinate Arylated Copper(III) Complex: Key Intermediate in <i>Copper</i> -Mediated Arene Trifluoromethylation. <i>Chinese Journal of Chemistry</i> , 2022, 40, 1924-1930.	2.6	10
59	Scandium terminal imido complex induced intramolecular C-N bond cleavage and transformation. <i>Science China Chemistry</i> , 2014, 57, 1098-1105.	4.2	9
60	Scandium Phosphonioketene: Synthesis, Bonding and Reactivity. <i>Chemistry - A European Journal</i> , 2019, 25, 10304-10308.	1.7	9
61	±-C agostic interactions and C-H bond activation in scandium cyclopropyl complexes. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4822-4831.	3.0	9
62	Divalent Ytterbium Iodide Supported by <i>2</i> -Diketiminato Based Tridentate Ligand: Synthesis, Structure and Small Molecule Activation. <i>Chinese Journal of Chemistry</i> , 2020, 38, 247-253.	2.6	8
63	De Novo Construction of Catenanes with Dissymmetric Cages by Space-Discriminative Post-Assembly Modification. <i>Angewandte Chemie</i> , 2020, 132, 7179-7187.	1.6	8
64	Catalytic Method for the Synthesis of Deuterium-Labeled <i>N</i> -Heterocyclic Carbenes Enabled by a Coordinatively Unsaturated Ruthenium <i>N</i> -Heterocyclic Carbene Catalyst. <i>Journal of the American Chemical Society</i> , 2021, 143, 19956-19965.	6.6	8
65	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> , 2021, 40, 2231-2239.	1.1	7
66	Divalent Ytterbium Hydrido Complex Supported by a <i>2</i> -Diketiminato-Based Tetradentate Ligand: Synthesis, Structure, and Reactivity. <i>Inorganic Chemistry</i> , 2021, 60, 13913-13919.	1.9	6
67	Hydrogenation of Alkenes Catalyzed by Rare-Earth Metal Phosphinophosphinidene Complexes: 1,2-Addition/Elimination Versus <i>f</i> -Bond Metathesis Mechanism. <i>CCS Chemistry</i> , 2022, 4, 3309-3318.	4.6	6
68	Insertion of Metal-Substituted Silylene into Naphthalene's Aromatic Ring and Subsequent Rearrangement for Silaspiro-Benzocycloheptenyl and Cyclobutenosilaindan Derivatives. <i>Angewandte Chemie</i> , 2021, 133, 3226-3232.	1.6	4
69	Isolable Anion Radicals of Nitrosoarenes. <i>Chinese Journal of Chemistry</i> , 2020, 38, 158-162.	2.6	1
70	Noninnocent Behavior of a (3-Imino)indol-2-yl Ligand in Metal Complexes. <i>Organometallics</i> , 2022, 41, 480-485.	1.1	1
71	Synthesis, Characterization and Reactivity of a Hydrido- and Imido-Bridged Dinuclear Ytterbium(III) Complex. <i>Angewandte Chemie - International Edition</i> , 2022, , e202200540.	7.2	1
72	Synthesis, Characterization and Reactivity of a Hydrido- and Imido-Bridged Dinuclear Ytterbium(III) Complex. <i>Angewandte Chemie</i> , 0, , .	1.6	0