Xuebing Leng

List of Publications by Year in Descending Order

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	Noninnocent Behavior of a (3-Imino)indol-2-yl Ligand in Metal Complexes. *Organometallics*, **2022**, 41, 480-485	3.8	1
73	Synthesis, Characterization, and Reactivity of a Hydrido- and Imido-Bridged Dinuclear Ytterbium(III) Complex.. *Angewandte Chemie - International Edition*, **2022**, e202200540	16.4	1
72	Catalytic Method for the Synthesis of Deuterium-Labeled -Heterocyclic Carbenes Enabled by a Coordinatively Unsaturated Ruthenium -Heterocyclic Carbene Catalyst. *Journal of the American Chemical Society*, **2021**, 143, 19956-19965	16.4	2
71	Regio- and enantioselective umpolung gem-difluoroallylation of hydrazones via palladium catalysis enabled by N-heterocyclic carbene ligand. *Nature Communications*, **2021**, 12, 6551	17.4	3
70	An Amine-Assisted Ionic Monohydride Mechanism Enables Selective Alkyne -Semihydrogenation with Ethanol: From Elementary Steps to Catalysis. *Journal of the American Chemical Society*, **2021**, 143, 4824-4836	16.4	12
69	C(sp2)X (X = Cl, Br, and I) Reductive Eliminations from Well-Defined Gold(III) Complexes: Concerted or Dissociation Pathways?. *Organometallics*, **2021**, 40, 2231-2239	3.8	3
68	Organocalcium Complex-Catalyzed Selective Redistribution of ArSiH3 or Ar(alkyl)SiH2 to Ar3SiH or Ar2(alkyl)SiH. *ACS Catalysis*, **2021**, 11, 6348-6356	13.1	2
67	Divalent Ytterbium Hydrido Complex Supported by a Diketiminato-Based Tetradentate Ligand: Synthesis, Structure, and Reactivity. *Inorganic Chemistry*, **2021**, 60, 13913-13919	5.1	3
66	C(sp2)-CF3 Reductive Elimination from Well-Defined Argentate(III) Complexes [nBu4N][Ag(Ar)(CF3)3]. *Organometallics*, **2021**, 40, 1713-1718	3.8	4
65	An Isolable Mononuclear Palladium(I) Amido Complex. *Journal of the American Chemical Society*, **2021**, 143, 10751-10759	16.4	3
64	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	0
63	Insertion of Metal-Substituted Silylene into Naphthalene's Aromatic Ring and Subsequent Rearrangement for Silaspiro-Benzocycloheptenyl and Cyclobutenosilaindan Derivatives. *Angewandte Chemie - International Edition*, **2021**, 60, 3189-3195	16.4	2
62	Scandium-Terminal Boronylphosphinidene Complex. *Journal of the American Chemical Society*, **2021**, 143, 2705-2709	16.4	5
61	Palladium-catalysed enantioselective diacetoxylation of terminal alkenes. *Nature Catalysis*, **2021**, 4, 172-179	36.3	16
60	Markovnikov Hydrosilylation of Alkynes with Tertiary Silanes Catalyzed by Dinuclear Cobalt Carbonyl Complexes with NHC Ligation. *Journal of the American Chemical Society*, **2021**, 143, 12847-12856	16.4	8
59	Mechanistic Insight into Copper-Mediated Trifluoromethylation of Aryl Halides: The Role of CuI. *Journal of the American Chemical Society*, **2021**, 143, 14367-14378	16.4	3
58	C(sp)-CF Reductive Elimination from a Five-Coordinate Neutral Copper(III) Complex. *Journal of the American Chemical Society*, **2020**, 142, 9785-9791	16.4	25

57	N-Bridged Pincer Iridium Complexes for Highly Efficient Alkane Dehydrogenation and the Relevant Linker Effects. *ACS Catalysis*, **2020**, 10, 6475-6487	13.1	14
56	Synthesis and versatile reactivity of scandium phosphinophosphinidene complexes. *Nature Communications*, **2020**, 11, 2916	17.4	12
55	Samarium(II) Monoalkyl Complex Supported by a Diketiminato-Based Tetradentate Ligand: Synthesis, Structure, and Catalytic Hydrosilylation of Internal Alkynes. *Chemistry - A European Journal*, **2020**, 26, 5494-5499	4.8	11
54	De Novo Construction of Catenanes with Dissymmetric Cages by Space-Discriminative Post-Assembly Modification. *Angewandte Chemie*, **2020**, 132, 7179-7187	3.6	4
53	Reactivity of a Two-Coordinate Cobalt(0) Cyclic (Alkyl)(amino)carbene Complex. *Organometallics*, **2020**, 39, 729-739	3.8	13
52	Divalent Ytterbium Iodide Supported by Diketiminato Based Tridentate Ligand: Synthesis, Structure and Small Molecule Activation *Chinese Journal of Chemistry*, **2020**, 38, 247-253	4.9	7
51	Isolable Anion Radicals of Nitrosoarenes. *Chinese Journal of Chemistry*, **2020**, 38, 158-162	4.9	1
50	CC agostic interactions and CH bond activation in scandium cyclopropyl complexes. *Inorganic Chemistry Frontiers*, **2020**, 7, 4822-4831	6.8	1
49	Cobalt(I)- and Rhodium(I)-Mediated Dearylation of N-Aryl N-Heterocyclic Carbene Ligands. *Organometallics*, **2020**, 39, 2871-2877	3.8	10
48	De Novo Construction of Catenanes with Dissymmetric Cages by Space-Discriminative Post-Assembly Modification. *Angewandte Chemie - International Edition*, **2020**, 59, 7113-7121	16.4	20
47	Three-Coordinate Iron(0) Complexes with -Heterocyclic Carbene and Vinyltrimethylsilane Ligation: Synthesis, Characterization, and Ligand Substitution Reactions. *Inorganic Chemistry*, **2019**, 58, 13129-13141	5.1	14
46	Scandium Phosphonioketene: Synthesis, Bonding and Reactivity. *Chemistry - A European Journal*, **2019**, 25, 10304-10308	4.8	3
45	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. *Dalton Transactions*, **2019**, 48, 10565-10573	4.3	10
44	A Two-Coordinate Iron(II) Imido Complex with NHC Ligation: Synthesis, Characterization, and Its Diversified Reactivity of Nitrene Transfer and C-H Bond Activation. *Inorganic Chemistry*, **2019**, 58, 7634-7644	5.1	29
43	A Key Intermediate in Copper-Mediated Arene Trifluoromethylation, [nBu4N][Cu(Ar)(CF3)3]: Synthesis, Characterization, and C(sp2)CF3 Reductive Elimination. *Angewandte Chemie*, **2019**, 131, 8598	3.6	
42	A Key Intermediate in Copper-Mediated Arene Trifluoromethylation, [nBu N][Cu(Ar)(CF)]: Synthesis, Characterization, and C(sp)-CF Reductive Elimination. *Angewandte Chemie - International Edition*, **2019**, 58, 8510-8514	16.4	29
41	Substrate Redox Non-innocence Inducing Stepwise Oxidative Addition Reaction: Nitrosoarene C-N Bond Cleavage on Low-Coordinate Cobalt(0) Species. *Journal of the American Chemical Society*, **2019**, 141, 7731-7735	16.4	15
40	Cyclometallation reactions of a three-coordinate cobalt(i) complex bearing a nonsymmetric N-heterocyclic carbene ligand. *Dalton Transactions*, **2019**, 48, 9676-9683	4.3	8

39	Asymmetric Total Synthesis of Arcutinidine, Arcutinine, and Arcutine. *Journal of the American Chemical Society*, **2019**, 141, 13718-13723	16.4	34
38	Controllable catalytic difluorocarbene transfer enables access to diversified fluoroalkylated arenes. *Nature Chemistry*, **2019**, 11, 948-956	17.6	66
37	Divalent Ytterbium Complex-Catalyzed Homo- and Cross-Coupling of Primary Arylsilanes. *Journal of the American Chemical Society*, **2019**, 141, 138-142	16.4	33
36	Transfer Hydrogenation of Alkenes Using Ethanol Catalyzed by a NCP Pincer Iridium Complex: Scope and Mechanism. *Journal of the American Chemical Society*, **2018**, 140, 4417-4429	16.4	82
35	Side Arm Twist on Zn-Catalyzed Hydrosilylative Reduction of CO2 to Formate and Methanol Equivalents with High Selectivity and Activity. *ACS Catalysis*, **2018**, 8, 4710-4718	13.1	35
34	Dianionic Carbon-Bridged Scandium-Copper/Silver Heterobimetallic Complexes: Synthesis, Bonding, and Reactivity. *Chemistry - A European Journal*, **2018**, 24, 5637-5643	4.8	10
33	Monomeric Rare-Earth Metal Silyl-Thiophosphinoyl-Alkylidene Complexes: Synthesis, Structure, and Reactivity. *Chemistry - A European Journal*, **2018**, 24, 13903-13917	4.8	12
32	Hafnium(II) Complexes with Cyclic (Alkyl)(amino)carbene Ligation. *Organometallics*, **2018**, 37, 4186-4188	3.8	10
31	Reactions of Low-Coordinate Cobalt(0)-N-Heterocyclic Carbene Complexes with Primary Aryl Phosphines. *Inorganic Chemistry*, **2018**, 57, 15600-15609	5.1	11
30	Are Sc□ and Sc□ Bonds Reactive in Scandium Phosphinoalkylidene Complex? Insights on a Versatile Reactivity. *Chinese Journal of Chemistry*, **2018**, 36, 904-908	4.9	10
29	Rare-earth metal hydrides supported by silicon-bridged boratabenzene fluorenyl ligands: synthesis, structure and reactivity. *Dalton Transactions*, **2017**, 46, 1218-1227	4.3	13
28	Highly Reactive Scandium Phosphinoalkylidene Complex: C-H and H-H Bonds Activation. *Journal of the American Chemical Society*, **2017**, 139, 1081-1084	16.4	40
27	Formation and Reactivity of a C-P-N-Sc Four-Membered Ring: H , O , CO, Phenylsilane, and Pinacolborane Activation. *Chemistry - A European Journal*, **2017**, 23, 5424-5428	4.8	18
26	An Agostic Iridium Pincer Complex as a Highly Efficient and Selective Catalyst for Monoisomerization of 1-Alkenes to trans-2-Alkenes. *Angewandte Chemie - International Edition*, **2017**, 56, 1614-1618	16.4	59
25	Nonchelated Phosphoniomethylidene Complexes of Scandium and Lutetium. *Journal of the American Chemical Society*, **2017**, 139, 17759-17762	16.4	32
24	Synthesis and Reactivity of a Scandium Terminal Hydride: H Activation by a Scandium Terminal Imido Complex. *Chemistry - A European Journal*, **2017**, 23, 14728-14732	4.8	19
23	Synthesis of Pincer Hydrido Ruthenium Olefin Complexes for Catalytic Alkane Dehydrogenation. *Organometallics*, **2016**, 35, 181-188	3.8	43
22	Non-Pincer-Type Mononuclear Scandium Alkylidene Complexes: Synthesis, Bonding, and Reactivity. *Chemistry - A European Journal*, **2016**, 22, 1258-61	4.8	33

21	Catalytic alkane transfer-dehydrogenation by PSCOP iridium pincer complexes. *Polyhedron*, **2016**, 116, 12-19	2.7	20
20	Synthesis and Structure of Silicon-Bridged Boratabenzene Fluorenyl Rare-Earth Metal Complexes. *Organometallics*, **2016**, 35, 1995-2002	3.8	12
19	Copper-promoted sandmeyer difluoromethylthiolation of aryl and heteroaryl diazonium salts. *Angewandte Chemie - International Edition*, **2015**, 54, 7648-52	16.4	98
18	Substitution reaction of triphenylphosphine oxide with rare-earth metal phosphido methyl complexes. *New Journal of Chemistry*, **2015**, 39, 7582-7588	3.6	10
17	Copper-Promoted Sandmeyer Difluoromethylthiolation of Aryl and Heteroaryl Diazonium Salts. *Angewandte Chemie*, **2015**, 127, 7758-7762	3.6	28
16	Well-Defined, Shelf-Stable (NHC)Ag(CF2H) Complexes for Difluoromethylation. *Organometallics*, **2015**, 34, 3065-3071	3.8	74
15	A Scandium Complex Bearing Both Methylidene and Phosphinidene Ligands: Synthesis, Structure, and Reactivity. *Organometallics*, **2015**, 34, 470-476	3.8	44
14	Cooperative dual palladium/silver catalyst for direct difluoromethylation of aryl bromides and iodides. *Nature Communications*, **2014**, 5, 5405	17.4	183
13	Iridium complexes of new NCP pincer ligands: catalytic alkane dehydrogenation and alkene isomerization. *Chemical Communications*, **2014**, 50, 11056-9	5.8	58
12	Scandium terminal imido complex induced intramolecular C-N bond cleavage and transformation. *Science China Chemistry*, **2014**, 57, 1098-1105	7.9	8
11	Boron-Oxygen Bond Cleavage of Pinacolborane and Catecholborane Mediated by a Scandium Phosphinidene Complex. *Chinese Journal of Chemistry*, **2014**, 32, 752-756	4.9	10
10	An yttrium hydride-silane complex as a structural model for a □bond metathesis transition state. *Angewandte Chemie - International Edition*, **2013**, 52, 4243-6	16.4	30
9	Iridium-catalyzed selective □alkylation of unactivated amides with primary alcohols. *Organic Letters*, **2013**, 15, 1144-7	6.2	72
8	Versatile reactivity of a four-coordinate scandium phosphinidene complex: reduction, addition, and CO activation reactions. *Journal of the American Chemical Society*, **2013**, 135, 14784-96	16.4	68
7	An Yttrium Hydride□Silane Complex as a Structural Model for a □Bond Metathesis Transition State. *Angewandte Chemie*, **2013**, 125, 4337-4340	3.6	11
6	C□ or C□ Bond Cleavage of Phosphine Oxides Mediated by an Yttrium Hydride. *Organometallics*, **2012**, 31, 4574-4578	3.8	17
5	Reactivity of a Scandium Terminal Imido Complex Towards Unsaturated Substrates. *Angewandte Chemie*, **2011**, 123, 7819-7822	3.6	23
4	Well-Defined Soluble P3□Containing Rare-Earth-Metal Compounds. *Angewandte Chemie*, **2011**, 123, 11423-11425	3.6	12

3	Reactivity of a scandium terminal imido complex towards unsaturated substrates. *Angewandte Chemie - International Edition*, **2011**, 50, 7677-80	16.4	84
2	Well-defined soluble P(3-)-containing rare-earth-metal compounds. *Angewandte Chemie - International Edition*, **2011**, 50, 11227-9	16.4	43
1	Hydrogenation of Alkenes Catalyzed by Rare-earth Metal Phosphinophosphinidene Complexes: 1,2-Addition/elimination vs Bond Metathesis Mechanism. *CCS Chemistry*,1-25	7.2	0