

# Hongjian Sun

## 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.

93  
papers

1,361  
citations

21  
h-index

31  
g-index

97  
ext. papers

1,533  
ext. citations

3.2  
avg, IF

4.73  
L-index

#	Paper	IF	Citations
93	[P, C] Chelate Cobalt(I)-Catalyzed Distinct Selective Hydrosilylation of Alkenes under Mild Conditions. <i>Organometallics</i> , <b>2022</b> , 41, 698-705	3.8	2
92	Synthesis of silyl iron dinitrogen complexes for activation of dihydrogen and catalytic silylation of dinitrogen. <i>Dalton Transactions</i> , <b>2021</b> , 50, 17594-17602	4.3	1
91	Nickel-Catalyzed Sonogashira Coupling Reactions of Nonactivated Alkyl Chlorides under Mild Conditions. <i>Organometallics</i> , <b>2021</b> , 40, 2240-2245	3.8	1
90	Selectivity Reverse of Hydrosilylation of Aryl Alkenes Realized by Pyridine N-Oxide with [PSiP] Pincer Cobalt(III) Hydride as Catalyst. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 4551-4562	5.1	6
89	Synthesis and catalytic activity of N-heterocyclic silylene (NHSi) iron (II) hydride for hydrosilylation of aldehydes and ketones. <i>Applied Organometallic Chemistry</i> , <b>2021</b> , 35, e6286	3.1	0
88	Progress in the preparation and characterization of silylene iron, cobalt and nickel complexes. <i>Dalton Transactions</i> , <b>2021</b> , 50, 6766-6772	4.3	3
87	[P,C]-Chelate Cobalt(III) Hydride Catalyzed Hydrosilylation of Alkenes. <i>Organometallics</i> , <b>2021</b> , 40, 2836-2843	3.8	4
86	Solvent-Free Hydrosilylation of Alkenes Catalyzed by Well-Defined Low-Valent Cobalt Catalysts. <i>Organometallics</i> , <b>2021</b> , 40, 286-293	3.8	3
85	[CNC]-Pincer Cobalt Hydride Catalyzed Distinct Selective Hydrosilylation of Aryl Alkene and Alkyl Alkene. <i>Organometallics</i> , <b>2020</b> , 39, 2455-2463	3.8	11
84	Pyridine N-oxide promoted hydrosilylation of carbonyl compounds catalyzed by [PSiP]-pincer iron hydrides. <i>Dalton Transactions</i> , <b>2020</b> , 49, 9349-9354	4.3	3
83	An Air-Stable N-Heterocyclic [PSiP] Pincer Iron Hydride and an Analogous Nitrogen Iron Hydride: Synthesis and Catalytic Dehydration of Primary Amides to Nitriles. <i>Organometallics</i> , <b>2020</b> , 39, 824-833	3.8	10
82	Physics and Dynamics Characteristics and Energy Analysis of Freeze-Thaw Limestone. <i>Advances in Civil Engineering</i> , <b>2020</b> , 2020, 1-12	1.3	2
81	N <sub>2</sub> Silylation Catalyzed by a Bis(silylene)-Based [SiCSi] Pincer Hydrido Iron(II) Dinitrogen Complex. <i>Organometallics</i> , <b>2020</b> , 39, 757-766	3.8	25
80	E-Selective Hydrothiolation of Terminal Arylallenes with Arylthiols Catalyzed by Ni (PMe <sub>3</sub> ) <sub>4</sub> . <i>Applied Organometallic Chemistry</i> , <b>2020</b> , 34, e5291	3.1	
79	Lewis acid promoted dehydration of amides to nitriles catalyzed by [PSiP]-pincer iron hydrides. <i>Applied Organometallic Chemistry</i> , <b>2020</b> , 34, e5466	3.1	10
78	Efficient dehydration of primary amides to nitriles catalyzed by phosphorus-chalcogen chelated iron hydrides. <i>Applied Organometallic Chemistry</i> , <b>2020</b> , 34, e5337	3.1	5
77	The Effect of Substituents on the Formation of Silyl [PSiP] Pincer Cobalt(I) Complexes and Catalytic Application in Both Nitrogen Silylation and Alkene Hydrosilylation. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 16489-16499	5.1	9

76	Transfer hydrogenation of ketones catalyzed by nickel complexes bearing an NHC [CNN] pincer ligand. <i>Applied Organometallic Chemistry</i> , <b>2019</b> , 33, e4932	3.1	10
75	Efficient transfer hydrogenation of carbonyl compounds catalyzed by selenophenolato hydrido iron(II) complexes. <i>Catalysis Communications</i> , <b>2019</b> , 124, 32-35	3.2	7
74	Catalytic Effect of Iron Hydrides on Dehydration of Primary Amides to Nitriles. <i>Chinese Journal of Organic Chemistry</i> , <b>2019</b> , 39, 2941	3	3
73	Dehydration of primary amides to nitriles catalyzed by [CNC]-pincer hydrido cobalt(III) complexes. <i>Catalysis Communications</i> , <b>2019</b> , 120, 72-75	3.2	16
72	Synthesis and Catalytic Activity of Iron Hydride Ligated with Bidentate N-Heterocyclic Silylenes for Hydroboration of Carbonyl Compounds. <i>Organometallics</i> , <b>2019</b> , 38, 268-277	3.8	31
71	Transfer hydrogenation of aldehydes catalyzed by silyl hydrido iron complexes bearing a [PSiP] pincer ligand. <i>RSC Advances</i> , <b>2018</b> , 8, 14092-14099	3.7	18
70	Synthesis of silyl iron hydride via Si-H activation and its dual catalytic application in the hydrosilylation of carbonyl compounds and dehydration of benzamides. <i>Dalton Transactions</i> , <b>2018</b> , 47, 4352-4359	4.3	18
69	Synthesis and catalytic activity of N-heterocyclic silylene (NHSi) cobalt hydride for Kumada coupling reactions. <i>Dalton Transactions</i> , <b>2018</b> , 47, 2581-2588	4.3	18
68	Synthesis of NHC Pincer Hydrido Nickel Complexes and Their Catalytic Applications in Hydrodehalogenation. <i>Organometallics</i> , <b>2018</b> , 37, 539-544	3.8	19
67	Phosphine-assisted C <sub>≡</sub> N bond activation in Schiff bases and formation of novel organo cobalt complexes bearing Schiff base ligands. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 4646-4652	3.6	1
66	Syntheses and properties of 2-azaallyl Iron(I) complexes via Csp <sup>3</sup> -H bond activation. <i>Journal of Organometallic Chemistry</i> , <b>2018</b> , 868, 61-65	2.3	1
65	Preparation of hydrido [CNC]-pincer cobalt complexes via selective C <sub>≡</sub> N/C <sub>≡</sub> N bond activation and their catalytic performances. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 15578-15586	3.6	5
64	Synthesis and catalytic application of [PPP]-pincer iron, nickel and cobalt complexes for the hydrosilylation of aldehydes and ketones. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 16583-16590	3.6	16
63	Sonogashira reactions of alkyl halides catalyzed by NHC [CNN] pincer nickel(II) complexes. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 11465-11470	3.6	21
62	Formation of 2-Azaallyl Cobalt(I) Complexes by Csp <sup>3</sup> -H Bond Activation. <i>Organometallics</i> , <b>2017</b> , 36, 975-988	3.8	4
61	Synthesis and Structure of Low-valent $\pi$ -Cinnamaldehyde Cobalt Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2017</b> , 643, 712-716	1.3	
60	Synthesis of a Silyl Cobalt Hydride and Its Catalytic Performance in Kumada Coupling Reactions. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 1234-1239	4.5	5
59	Vinyl/Phenyl Exchange Reaction within Vinyl Nickel Complexes Bearing Chelate [P, S]-Ligands. <i>Organometallics</i> , <b>2017</b> , 36, 4246-4255	3.8	4

58	Synthesis and reactivity of iron hydride with [P, Se]-chelate ligand. <i>Journal of Organometallic Chemistry</i> , <b>2017</b> , 853, 107-112	2.3	1
57	Activation of CO <sub>2</sub> , CS <sub>2</sub> , and Dehydrogenation of Formic Acid Catalyzed by Iron(II) Hydride Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 5205-5214	2.3	13
56	Synthesis and Characterization of Diorganocobalt Chlorides by Aliphatic Vinyl C=C Bond Activation. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2016</b> , 642, 866-869	1.3	1
55	The selective activation of a C-F bond with an auxiliary strong Lewis acid: a method to change the activation preference of C-F and C-H bonds. <i>Dalton Transactions</i> , <b>2016</b> , 45, 18133-18141	4.3	7
54	Synthesis and Reactivity of N-Heterocyclic Pincer Iron and Cobalt Complexes and Catalytic Application of Cobalt Hydride in Kumada Coupling Reactions. <i>Organometallics</i> , <b>2016</b> , 35, 357-363	3.8	33
53	Efficient reductive dehydration of primary amides to nitriles catalyzed by hydrido thiophenolato iron(II) complexes under hydrosilylation conditions. <i>Catalysis Communications</i> , <b>2016</b> , 86, 148-150	3.2	26
52	Selective C=C and C=C Activation of Fluoroarenes by Fe(PMe <sub>3</sub> ) <sub>4</sub> and Catalytic Performance of Iron Hydride in Hydrosilylation of Carbonyl Compounds. <i>Organometallics</i> , <b>2016</b> , 35, 3538-3545	3.8	16
51	Nickel(II) complexes of amine functionalized N-heterocyclic carbenes (NHCs), synthesis and catalysis in Kumada coupling of aryl chlorides. <i>Journal of Organometallic Chemistry</i> , <b>2016</b> , 820, 41-45	2.3	16
50	Syntheses and catalytic application of hydrido iron(II) complexes with [P,S]-chelating ligands in hydrosilylation of aldehydes and ketones. <i>RSC Advances</i> , <b>2015</b> , 5, 52000-52006	3.7	19
49	Synthesis and characterization of stable tripodal silyl iron and nickel complexes. <i>Inorganica Chimica Acta</i> , <b>2015</b> , 430, 161-167	2.7	11
48	Synthesis and Reactivity of a Hydrido CNC Pincer Cobalt(III) Complex and Its Application in Hydrosilylation of Aldehydes and Ketones. <i>Organometallics</i> , <b>2015</b> , 34, 1479-1486	3.8	41
47	Introduction of (2-CF <sub>3</sub> )Phenyl Group via Nickel-catalyzed C=C Bond Activation and Arylation. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2015</b> , 641, 838-841	1.3	1
46	Imine Nitrogen Bridged Binuclear Nickel Complexes via N=C Bond Activation: Synthesis, Characterization, Unexpected C,N-Coupling Reaction, and Their Catalytic Application in Hydrosilylation of Aldehydes. <i>Organometallics</i> , <b>2015</b> , 34, 5175-5182	3.8	15
45	Synthesis and Characterization of Iron, Cobalt, and Nickel [PNP] Pincer Amido Complexes by N=C Bond Activation. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2015</b> , 641, 2435-2439	1.3	11
44	Synthesis of Dinuclear Nickel Complexes from Dimethyltris(trimethylphosphine)nickel(II) via N=C Bond Activation. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2015</b> , 641, 669-672	1.3	1
43	Synthesis and Characterization of Bis(2-iminopyrrolyl) Iron(II) Complexes by N=C Bond Activation. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2015</b> , 641, 1959-1963	1.3	3
42	Synthesis of Vinylnickel and Nickelcyclopropane Complexes Containing a Chelate [P,Se]-Ligand. <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 3139-3145	2.3	11
41	Synthesis of Iron Hydrides by Selective C=C/C=C Bond Activation in Fluoroarylimines and Their Applications in Catalytic Reduction Reactions. <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 2732-2743	2.3	20

40	Synthesis of [POCOP]-pincer iron and cobalt complexes via Csp <sup>3</sup> activation and catalytic application of iron hydride in hydrosilylation reactions. <i>RSC Advances</i> , <b>2015</b> , 5, 15660-15667	3-7	32
39	Formation of PCP pincer cobalt complexes with cobaltacyclopropane moieties via double Csp <sup>3</sup> bond activation. <i>RSC Advances</i> , <b>2015</b> , 5, 19402-19408	3-7	9
38	Transition-Metal-Free Synthesis of Fluorinated Arenes from Perfluorinated Arenes Coupled with Grignard Reagents. <i>Organometallics</i> , <b>2014</b> , 33, 1079-1081	3-8	33
37	A new PC(sp <sup>3</sup> )P ligand and its coordination chemistry with low-valent iron, cobalt and nickel complexes. <i>Dalton Transactions</i> , <b>2014</b> , 43, 8595-8	4-3	26
36	[CNN]-pincer nickel(II) complexes of N-heterocyclic carbene (NHC): synthesis and catalysis of the Kumada reaction of unactivated C-Cl bonds. <i>Dalton Transactions</i> , <b>2014</b> , 43, 9410-3	4-3	29
35	C-Cl bond activation and catalytic hydrodechlorination of hexachlorobenzene by cobalt and nickel complexes with sodium formate as a reducing agent. <i>Dalton Transactions</i> , <b>2014</b> , 43, 6660-6	4-3	13
34	Hydrosilylation of aldehydes and ketones catalyzed by hydrido iron complexes bearing imine ligands. <i>Dalton Transactions</i> , <b>2014</b> , 43, 11716-22	4-3	30
33	Synthesis and Catalytic Property of Iron Pincer Complexes Generated by Csp <sup>3</sup> Activation. <i>Organometallics</i> , <b>2014</b> , 33, 3535-3539	3-8	52
32	Computational rationalization of the selective C-H and C-F activations of fluoroaromatic imines and ketones by cobalt complexes. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 1897-907	3-9	8
31	Preparation of organocobalt complexes through C <sup>≡</sup> N/C <sup>≡</sup> N bond activation of polyfluoroaryl imines. <i>Inorganic Chemistry Communication</i> , <b>2014</b> , 43, 110-113	3-1	2
30	Synthesis, photophysical and thin-film self-assembly properties of novel fluorescent molecules with carbon-carbon triple bonds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2014</b> , 133, 229-40	4-4	3
29	Selective activation of C-F and C-H bonds with iron complexes, the relevant mechanism study by DFT calculations and study on the chemical properties of hydrido iron complex. <i>Dalton Transactions</i> , <b>2013</b> , 42, 3417-28	4-3	15
28	Selectively catalytic hydrodefluorination of perfluoroarenes by Co(PMe <sub>3</sub> ) <sub>4</sub> with sodium formate as reducing agent and mechanism study. <i>Dalton Transactions</i> , <b>2013</b> , 42, 13048-53	4-3	30
27	Synthesis and characterization of novel organonickel and organocobalt complexes via carbon-chlorine bond activation. <i>Journal of Organometallic Chemistry</i> , <b>2013</b> , 743, 114-122	2-3	9
26	Synthesis and Catalytic Application in Hydrosilylation of the Complex mer-Hydrido(2-mercaptobenzoyl)tris(trimethylphosphine)cobalt(III). <i>Organometallics</i> , <b>2013</b> , 32, 5235-5238	3-8	38
25	Selective C-F/C-H bond activation of fluoroarenes by cobalt complex supported with phosphine ligands. <i>Dalton Transactions</i> , <b>2013</b> , 42, 5740-8	4-3	22
24	Synthesis and Reactivity of Silyl Iron, Cobalt, and Nickel Complexes Bearing a [PSiP]-Pincer Ligand via Si-Cl Bond Activation. <i>Organometallics</i> , <b>2013</b> , 32, 3227-3237	3-8	103
23	Cobalt-catalyzed Selective C-F Bond Activation and Alkylation of Polyfluoroaryl Imines. <i>Chinese Journal of Chemistry</i> , <b>2013</b> , 31, 927-932	4-9	10

22	Synthesis of 2-Mercaptobenzaldehyde, 2-Mercaptocyclohex-1-enecarboxaldehydes and 3-Mercaptoacrylaldehydes. <i>Chinese Journal of Chemistry</i> , <b>2012</b> , 30, 2495-2500	4.9	9
21	C-Cl bond activation of ortho-chlorinated benzamides by nickel and cobalt compounds supported with phosphine ligands. <i>Dalton Transactions</i> , <b>2012</b> , 41, 8715-22	4.3	12
20	Synthesis of Dinuclear Cobalt Complexes Containing Trimethylphosphine and Thiophenolato Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2011</b> , 637, 430-435	1.3	5
19	Imine-assisted C-F bond activation using low-valent cobalt compounds supported by trimethylphosphine ligands and formation of novel organic fluorides. <i>Dalton Transactions</i> , <b>2010</b> , 39, 9523-9	4.9	29
18	Effect of anchoring group and valent of cobalt center on the competitive cleavage of C-H or C-H bond activation. <i>Journal of Organometallic Chemistry</i> , <b>2010</b> , 695, 1873-1877	2.3	19
17	Regioselective ortho-Metallation of 2-Diphenylphosphanylpyridine and (2-(2-Diphenylphosphanyl)phenyl)-1,3-dioxalane with Methyltetrakis(trimethylphosphane)cobalt(I). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2009</b> , 635, 99-105	1.3	6
16	Synthesis of new thiophenolato hydrido iron(II) complexes and their substitution reactions with alkynes. <i>Polyhedron</i> , <b>2009</b> , 28, 3823-3827	2.7	10
15	Activation of sp <sup>3</sup> Carbon-Hydrogen Bonds by Cobalt and Iron Complexes and Subsequent C-H Bond Formation. <i>Organometallics</i> , <b>2009</b> , 28, 6090-6095	3.8	56
14	Synergistic Effect of a Low-Valent Cobalt Complex and a Trimethylphosphine Ligand on Selective C-H Bond Activation of Perfluorinated Toluene. <i>Organometallics</i> , <b>2009</b> , 28, 5771-5776	3.8	51
13	N-Assisted Carbon-Hydrogen Bond Activation by Cobalt(I) Complexes. <i>Organometallics</i> , <b>2008</b> , 27, 5434-5437	3.3	14
12	Facile Synthesis of Bis(isoindolinone) through Carbonylative Cyclization and Dimerization of Phenylimine with Nickel(0) Complexes. <i>Organometallics</i> , <b>2008</b> , 27, 1944-1947	3.8	19
11	Cyclometalation Reactions Involving C-H Bond Activation of ortho-Chlorinated Substrates with Imine as Anchoring Groups by Cobalt Complexes. <i>Organometallics</i> , <b>2008</b> , 27, 270-275	3.8	31
10	Synthesis and X-ray Crystal Structures of Acenaphthenequinone-based Diimine Palladium Complexes and a Novel V-shape Tripalladium Cluster. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2008</b> , 634, 1517-1521	1.3	10
9	Insertion of Alkynes into Ni-H Bonds: Synthesis of Novel Vinyl Nickel(II) and Dinuclear Vinyl Nickel(II) Complexes Containing a [P, S]-Ligand. <i>Organometallics</i> , <b>2007</b> , 26, 566-570	3.8	27
8	Synthesis and Properties of Nickel(II) Complexes Containing Trimethylphosphine and Thiophenolato-Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2007</b> , 633, 2305-2309	1.3	6
7	Reaction of the Acyl(hydrido)cobalt(III) Complex with 2-Propyn-1-ol. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2007</b> , 633, 2310-2313	1.3	3
6	Reactions of Trimethylphosphane-Supported Cobalt Complexes with Salicylaldimines: Formation and Structures of Cobalt Compounds Containing Salicylaldiminato [N:O] Ligands. <i>European Journal of Inorganic Chemistry</i> , <b>2006</b> , 2006, 4362-4367	2.3	7
5	Unexpected Formation of a $\pi$ -Coordinate Schiff Base Cobalt(0) Complex. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2006</b> , 632, 501-504	1.3	3

4	Simple Synthesis and Structure Characterization of a Stable Niobium(V) Phosponiomethylidyne Complex. <i>Organometallics</i> , <b>2005</b> , 24, 4699-4701	3.8	24
3	Formation and Crystal Structure of Stable Five-coordinate Diorgano Cobalt(III) Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2005</b> , 631, 1929-1931	1.3	10
2	Synthesis and Structure of Novel Dimethylcobalt(III) Complexes Containing Trimethylphosphine and Salicylaldiminato(N:O) Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2005</b> , 631, 3096-3099	1.3	2
1	Synthesis and properties of [PCP] pincer silylene cobalt(I) complexes. <i>New Journal of Chemistry</i> ,	3.6	1