Hongjian Sun

List of Publications by Year
in descending order

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96 papers	1,706 citations	257357 24 h-index	377752 34 g-index
97 all docs	97 docs citations	97 times ranked	1293 citing authors

#	Article	IF	Citations
1	Synthesis and Reactivity of Silyl Iron, Cobalt, and Nickel Complexes Bearing a [PSiP]-Pincer Ligand via Siâ€“H Bond Activation. Organometallics, 2013, 32, 3227-3237.	1.1	113
2	Activation of sp³ Carbonâ'Hydrogen Bonds by Cobalt and Iron Complexes and Subsequent Câ'C Bond Formation. Organometallics, 2009, 28, 6090-6095.	1.1	63
3	Synthesis and Catalytic Property of Iron Pincer Complexes Generated by C_{sp³}â€“H Activation. Organometallics, 2014, 33, 3535-3539.	1.1	55
4	Synergistic Effect of a Low-Valent Cobalt Complex and a Trimethylphosphine Ligand on Selective Câ'F Bond Activation of Perfluorinated Toluene. Organometallics, 2009, 28, 5771-5776.	1.1	54
5	Synthesis and Reactivity of a Hydrido CNC Pincer Cobalt(III) Complex and Its Application in Hydrosilylation of Aldehydes and Ketones. Organometallics, 2015, 34, 1479-1486.	1.1	48
6	Synthesis and Catalytic Activity of Iron Hydride Ligated with Bidentate N-Heterocyclic Silylenes for Hydroboration of Carbonyl Compounds. Organometallics, 2019, 38, 268-277.	1.1	48
7	Transition-Metal-Free Synthesis of Fluorinated Arenes from Perfluorinated Arenes Coupled with Grignard Reagents. Organometallics, 2014, 33, 1079-1081.	1.1	45
8	Synthesis and Catalytic Application in Hydrosilylation of the Complex mer-Hydrido(2-mercaptobenzoyl)tris(trimethylphosphine)cobalt(III). Organometallics, 2013, 32, 5235-5238.	1.1	43
9	Synthesis of [POCOP]-pincer iron and cobalt complexes via C_{sp3}â€“H activation and catalytic application of iron hydride in hydrosilylation reactions. RSC Advances, 2015, 5, 15660-15667.	1.7	40
10	Synthesis and Reactivity of N-Heterocyclic PSiP Pincer Iron and Cobalt Complexes and Catalytic Application of Cobalt Hydride in Kumada Coupling Reactions. Organometallics, 2016, 35, 357-363.	1.1	40
11	N₂ Silylation Catalyzed by a Bis(silylene)-Based [SiCSi] Pincer Hydrido Iron(II) Dinitrogen Complex. Organometallics, 2020, 39, 757-766.	1.1	38
12	Efficient reductive dehydration of primary amides to nitriles catalyzed by hydrido thiophenolato iron(II) complexes under hydrosilation conditions. Catalysis Communications, 2016, 86, 148-150.	1.6	34
13	Selectively catalytic hydrodefluorination of perfluoroarenes by Co(PMe3)4 with sodium formate as reducing agent and mechanism study. Dalton Transactions, 2013, 42, 13048.	1.6	33
14	Cyclometalation Reactions Involving Câ'Cl Bond Activation of ortho-Chlorinated Substrates with Imine as Anchoring Groups by Cobalt Complexes. Organometallics, 2008, 27, 270-275.	1.1	32
15	[CNN]-pincer nickel(<scp>ii</scp>) complexes of N-heterocyclic carbene (NHC): synthesis and catalysis of the Kumada reaction of unactivated Câ€“Cl bonds. Dalton Transactions, 2014, 43, 9410-9413.	1.6	32
16	Imine-assisted Câ€“F bond activation using low-valent cobalt compounds supported by trimethylphosphine ligands and formation of novel organic fluorides. Dalton Transactions, 2010, 39, 9523.	1.6	30
17	A new PC(sp³)P ligand and its coordination chemistry with low-valent iron, cobalt and nickel complexes. Dalton Transactions, 2014, 43, 8595-8598.	1.6	30
18	Hydrosilylation of aldehydes and ketones catalyzed by hydrido iron complexes bearing imine ligands. Dalton Transactions, 2014, 43, 11716.	1.6	30

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19	Insertion of Alkynes into Niâ^'H Bonds:Â Synthesis of Novel Vinyl Nickel(II) and Dinuclear Vinyl Nickel(II) Complexes Containing a [P, S]-Ligand. Organometallics, 2007, 26, 566-570.	1.1	29
20	Selective Câ€“F/Câ€“H bond activation of fluoroarenes by cobalt complex supported with phosphine ligands. Dalton Transactions, 2013, 42, 5740.	1.6	28
21	Sonogashira reactions of alkyl halides catalyzed by NHC [CNN] pincer nickel(ii) complexes. New Journal of Chemistry, 2018, 42, 11465-11470.	1.4	28
22	Simple Synthesis and Structure Characterization of a Stable Niobium(V) Phosphoniomethylidyne Complex. Organometallics, 2005, 24, 4699-4701.	1.1	27
23	Synthesis and catalytic application of [PPP]-pincer iron, nickel and cobalt complexes for the hydrosilylation of aldehydes and ketones. New Journal of Chemistry, 2018, 42, 16583-16590.	1.4	26
24	Synthesis and catalytic activity of N-heterocyclic silylene (NHSi) cobalt hydride for Kumada coupling reactions. Dalton Transactions, 2018, 47, 2581-2588.	1.6	25
25	Synthesis of NHC Pincer Hydrido Nickel Complexes and Their Catalytic Applications in Hydrodehalogenation. Organometallics, 2018, 37, 539-544.	1.1	25
26	Syntheses and catalytic application of hydrido iron(<scp>ii</scp>) complexes with [P,S]-chelating ligands in hydrosilylation of aldehydes and ketones. RSC Advances, 2015, 5, 52000-52006.	1.7	24
27	Transfer hydrogenation of aldehydes catalyzed by silyl hydrido iron complexes bearing a [PSiP] pincer ligand. RSC Advances, 2018, 8, 14092-14099.	1.7	23
28	Synthesis of silyl iron hydride via Siâ€“H activation and its dual catalytic application in the hydrosilylation of carbonyl compounds and dehydration of benzamides. Dalton Transactions, 2018, 47, 4352-4359.	1.6	23
29	The Effect of Substituents on the Formation of Silyl [PSiP] Pincer Cobalt(I) Complexes and Catalytic Application in Both Nitrogen Silylation and Alkene Hydrosilylation. Inorganic Chemistry, 2020, 59, 16489-16499.	1.9	23
30	Effect of anchoring group and valent of cobalt center on the competitive cleavage of Câ€“F or Câ€“H bond activation. Journal of Organometallic Chemistry, 2010, 695, 1873-1877.	0.8	22
31	Synthesis of Iron Hydrides by Selective Câ€“F/Câ€“H Bond Activation in Fluoroarylimines and Their Applications in Catalytic Reduction Reactions. European Journal of Inorganic Chemistry, 2015, 2015, 2732-2743.	1.0	22
32	Dehydration of primary amides to nitriles catalyzed by [CNC]-pincer hydrido cobalt(III) complexes. Catalysis Communications, 2019, 120, 72-75.	1.6	21
33	Facile Synthesis of Bis(isoindolinone) through Carbonylative Cyclization and Dimerization of Phenylimine with Nickel(0) Complexes. Organometallics, 2008, 27, 1944-1947.	1.1	20
34	Selective Câ€“F and Câ€“H Activation of Fluoroarenes by Fe(PMe₃)₄ and Catalytic Performance of Iron Hydride in Hydrosilylation of Carbonyl Compounds. Organometallics, 2016, 35, 3538-3545.	1.1	20
35	Nickel(II) complexes of amine functionalized N-heterocyclic carbenes (NHCs), synthesis and catalysis in Kumada coupling of aryl chlorides. Journal of Organometallic Chemistry, 2016, 820, 41-45.	0.8	20
36	Câ€“Cl bond activation and catalytic hydrodechlorination of hexachlorobenzene by cobalt and nickel complexes with sodium formate as a reducing agent. Dalton Transactions, 2014, 43, 6660.	1.6	19

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37	[CNC]-Pincer Cobalt Hydride Catalyzed Distinct Selective Hydrosilylation of Aryl Alkene and Alkyl Alkene. Organometallics, 2020, 39, 2455-2463.	1.1	19
38	Selectivity Reverse of Hydrosilylation of Aryl Alkenes Realized by Pyridine N-Oxide with [PSiP] Pincer Cobalt(III) Hydride as Catalyst. Inorganic Chemistry, 2021, 60, 4551-4562.	1.9	18
39	Imine Nitrogen Bridged Binuclear Nickel Complexes via Nâ€“H Bond Activation: Synthesis, Characterization, Unexpected C,N-Coupling Reaction, and Their Catalytic Application in Hydrosilylation of Aldehydes. Organometallics, 2015, 34, 5175-5182.	1.1	17
40	Activation of CO₂, CS₂, and Dehydrogenation of Formic Acid Catalyzed by Iron(II) Hydride Complexes. European Journal of Inorganic Chemistry, 2016, 2016, 5205-5214.	1.0	17
41	An Air-Stable N-Heterocyclic [PSiP] Pincer Iron Hydride and an Analogous Nitrogen Iron Hydride: Synthesis and Catalytic Dehydration of Primary Amides to Nitriles. Organometallics, 2020, 39, 824-833.	1.1	17
42	Selective activation of Câ€“F and Câ€“H bonds with iron complexes, the relevant mechanism study by DFT calculations and study on the chemical properties of hydrido iron complex. Dalton Transactions, 2013, 42, 3417-3428.	1.6	16
43	N-Assisted Carbonâ^'Hydrogen Bond Activation by Cobalt(I) Complexes. Organometallics, 2008, 27, 5434-5437.	1.1	15
44	Lewis acid promoted dehydration of amides to nitriles catalyzed by [PSiP]â€pincer iron hydrides. Applied Organometallic Chemistry, 2020, 34, e5466.	1.7	15
45	Câ€“Cl bond activation of ortho-chlorinated benzamides by nickel and cobalt compounds supported with phosphine ligands. Dalton Transactions, 2012, 41, 8715.	1.6	14
46	Transfer hydrogenation of ketones catalyzed by nickel complexes bearing an NHC [CNN] pincer ligand. Applied Organometallic Chemistry, 2019, 33, e4932.	1.7	14
47	Progress in the preparation and characterization of silylene iron, cobalt and nickel complexes. Dalton Transactions, 2021, 50, 6766-6772.	1.6	14
48	Synthesis of Vinylnickel and Nickelacyclopropane Complexes Containing a Chelate [P,Se]â€Ligand. European Journal of Inorganic Chemistry, 2015, 2015, 3139-3145.	1.0	13
49	[P,C]-Chelate Cobalt(III) Hydride Catalyzed Hydrosilylation of Alkenes. Organometallics, 2021, 40, 2836-2843.	1.1	13
50	Synthesis and characterization of novel organonickel and organocobalt complexes via carbonâ€“chlorine bond activation. Journal of Organometallic Chemistry, 2013, 743, 114-122.	0.8	12
51	Synthesis of a Silyl Cobalt Hydride and Its Catalytic Performance in Kumada Coupling Reactions. Chemistry - an Asian Journal, 2017, 12, 1234-1239.	1.7	12
52	Formation and Crystal Structure of Stable Five-coordinate Diorgano Cobalt(III) Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 1929-1931.	0.6	11
53	Synthesis and Xâ€ray Crystal Structures of Acenaphthenequinoneâ€based Î±â€Diimine Palladium Complexes and a Novel Vâ€shape Tripalladium Cluster. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 1517-1521.	0.6	11
54	Synthesis of new thiophenolato hydrido iron(II) complexes and their substitution reactions with alkynes. Polyhedron, 2009, 28, 3823-3827.	1.0	11

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55	Cobaltâ€catalyzed Selective Cï¿F Bond Activation and Alkylation of Polyfluoroaryl Imines. Chinese Journal of Chemistry, 2013, 31, 927-932.	2.6	11
56	Synthesis and Characterization of Iron, Cobalt, and Nickel [PNP] Pincer Amido Complexes by Nâ€“H Activation. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2435-2439.	0.6	11
57	Synthesis and characterization of stable tripodal silyl iron and nickel complexes. Inorganica Chimica Acta, 2015, 430, 161-167.	1.2	11
58	Pyridine N-oxide promoted hydrosilylation of carbonyl compounds catalyzed by [PSiP]-pincer iron hydrides. Dalton Transactions, 2020, 49, 9349-9354.	1.6	10
59	Synthesis of 2â€Mercaptobenzaldehyde, 2â€Mercaptocyclohexâ€1â€enecarboxaldehydes and 3â€Mercaptoacrylaldehydes. Chinese Journal of Chemistry, 2012, 30, 2495-2500.	2.6	9
60	Formation of PCP pincer cobalt complexes with cobaltacyclopropane moieties via double C_{sp3}â€“H bond activation. RSC Advances, 2015, 5, 19402-19408.	1.7	9
61	Solvent-Free Hydrosilylation of Alkenes Catalyzed by Well-Defined Low-Valent Cobalt Catalysts. Organometallics, 2021, 40, 286-293.	1.1	9
62	Synthesis of aryl cobalt and iron complexes and their catalytic activity on hydrosilylation of alkenes. New Journal of Chemistry, 0, , .	1.4	9
63	Computational rationalization of the selective Câ€“H and Câ€“F activations of fluoroaromatic imines and ketones by cobalt complexes. Organic and Biomolecular Chemistry, 2014, 12, 1897-1907.	1.5	8
64	The selective activation of a Câ€“F bond with an auxiliary strong Lewis acid: a method to change the activation preference of Câ€“F and Câ€“H bonds. Dalton Transactions, 2016, 45, 18133-18141.	1.6	8
65	Efficient transfer hydrogenation of carbonyl compounds catalyzed by selenophenolato hydrido iron(II) complexes. Catalysis Communications, 2019, 124, 32-35.	1.6	8
66	Synthesis of silyl iron dinitrogen complexes for activation of dihydrogen and catalytic silylation of dinitrogen. Dalton Transactions, 2021, 50, 17594-17602.	1.6	8
67	Reactions of Trimethylphosphane-Supported Cobalt Complexes with Salicylaldimines â€“ Formation and Structures of Cobalt Compounds Containing Salicylaldiminato [N:O] Ligands. European Journal of Inorganic Chemistry, 2006, 2006, 4362-4367.	1.0	7
68	Preparation of hydrido [CNC]-pincer cobalt complexes via selective Câ€“H/Câ€“F bond activation and their catalytic performances. New Journal of Chemistry, 2018, 42, 15578-15586.	1.4	7
69	Efficient dehydration of primary amides to nitriles catalyzed by phosphorusâ€chalcogen chelated iron hydrides. Applied Organometallic Chemistry, 2020, 34, e5337.	1.7	7
70	Synthesis and Properties of Nickel(II) Complexes Containing Trimethylphosphine and Thiophenolatoâ€Ligands. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 2305-2309.	0.6	6
71	Regioselective orthoâ€Metallation of 2â€Diphenylphosphanylpyridine and (2â€(2â€Diphenylphosphanyl)phenyl)â€1â€3â€dioxalane with Methyltetrakis(trimethylphosphane)cobalt(I). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 99-105.	0.6	6
72	Synthesis of Dinuclear Cobalt Complexes Containing Trimethylphosphine and Thiophenolato Ligands. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 430-435.	0.6	6

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73	Nickel-Catalyzed Sonogashira Coupling Reactions of Nonactivated Alkyl Chlorides under Mild Conditions. Organometallics, 2021, 40, 2240-2245.	1.1	6
74	Synthesis and catalytic activity of Nâ€heterocyclic silylene (NHSi) iron (II) hydride for hydrosilylation of aldehydes and ketones. Applied Organometallic Chemistry, 2021, 35, e6286.	1.7	6
75	Vinyl/Phenyl Exchange Reaction within Vinyl Nickel Complexes Bearing Chelate [P, S]-Ligands. Organometallics, 2017, 36, 4246-4255.	1.1	5
76	Formation of 2-Azaallyl Cobalt(I) Complexes by Csp3â€“H Bond Activation. Organometallics, 2017, 36, 975-980.	1.1	4
77	Physics and Dynamics Characteristics and Energy Analysis of Freeze-Thaw Limestone. Advances in Civil Engineering, 2020, 2020, 1-12.	0.4	4
78	[P, C] Chelate Cobalt(I)-Catalyzed Distinct Selective Hydrosilylation of Alkenes under Mild Conditions. Organometallics, 2022, 41, 698-705.	1.1	4
79	Synthesis and Structure of Novel Dimethylcobalt(III) Complexes Containing Trimethylphosphine and Salicylaldiminato(N:O) Ligands. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 3096-3099.	0.6	3
80	Unexpected Formation of a Ï€-Coordinate Schiff Base Cobalt(0) Complex. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 501-504.	0.6	3
81	Reaction of the Acyl(hydrido)cobalt(III) Complex with 2â€Propynâ€1â€ol. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 2310-2313.	0.6	3
82	Synthesis, photophysical and thin-film self-assembly properties of novel fluorescent molecules with carbonâ€“carbon triple bonds. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 133, 229-240.	2.0	3
83	Synthesis and Characterization of Bis(2â€iminopyrrolyl) Iron(II) Complexes by Nâ€“H Bond Activation. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 1959-1963.	0.6	3
84	Eâ€Selective Hydrothiolation of Terminal Arylallenes with Arylthiols Catalyzed by Ni (PMe 3) 4. Applied Organometallic Chemistry, 2020, 34, e5291.	1.7	3
85	Catalytic Effect of Iron Hydrides on Dehydration of Primary Amides to Nitriles. Chinese Journal of Organic Chemistry, 2019, 39, 2941.	0.6	3
86	Preparation of organocobalt complexes through Câ€“F/Câ€“H bond activation of polyfluoroaryl imines. Inorganic Chemistry Communication, 2014, 43, 110-113.	1.8	2
87	Introduction of (2â€CF₃)Phenyl Group via Nickelâ€catalyzed Câ€“Cl Bond Activation and Arylation. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 838-841.	0.6	2
88	Syntheses and properties of 2-azaallyl Iron(I) complexes via Csp 3 -H bond activation. Journal of Organometallic Chemistry, 2018, 868, 61-65.	0.8	2
89	Synthesis of Silyl Cobalt Hydrides and their Catalytic Activity on Hydrosilylation of Alkenes. Applied Organometallic Chemistry, 0, , .	1.7	2
90	Synthesis of Dinuclear Nickel Complexes from DimethyltrisÂ(trimethylphosphine)nickel(II) via Nâ€“H Bond Activation. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 669-672.	0.6	1

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91	Synthesis and Characterization of Diorganocobalt Chlorides by Aliphatic Vinylic C-Cl Bond Activation. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 866-869.	0.6	1
92	Synthesis and reactivity of iron hydride with [P, Se]-chelate ligand. Journal of Organometallic Chemistry, 2017, 853, 107-112.	0.8	1
93	Phosphine-assisted Câ€“H bond activation in Schiff bases and formation of novel organo cobalt complexes bearing Schiff base ligands. New Journal of Chemistry, 2018, 42, 4646-4652.	1.4	1
94	Synthesis and properties of [PCP] pincer silylene cobalt(<scp>i</scp>) complexes. New Journal of Chemistry, 2021, 45, 19950-19956.	1.4	1
95	Synthesis and structure of silylene iron complex. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .	0.6	1
96	Synthesis and Structure of Low-valent Î·4 -Cinnamaldehyde Cobalt Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 712-716.	0.6	0