Connie C Lu

List of Publications by Year
in descending order

		81743	110170
76	4,377	39	64
papers	citations	h-index	g-index
81	81	81	3941
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neutral Bis(Î±-iminopyridine)metal Complexes of the First-Row Transition Ions (Cr, Mn, Fe, Co, Ni, Zn) and Their Monocationic Analogues:â€‰ Mixed Valency Involving a Redox Noninnocent Ligand System. Journal of the American Chemical Society, 2008, 130, 3181-3197.	6.6	254
2	Tuning Nickel with Lewis Acidic Group 13 Metalloligands for Catalytic Olefin Hydrogenation. Journal of the American Chemical Society, 2015, 137, 12486-12489.	6.6	204
3	Fe(I)-Mediated Reductive Cleavage and Coupling of CO2:â€‰ An FeII(Î¼-O,Î¼-CO)FeII Core. Journal of the American Chemical Society, 2007, 129, 4-5.	6.6	180
4	Metalâ€“Alane Adducts with Zero-Valent Nickel, Cobalt, and Iron. Journal of the American Chemical Society, 2011, 133, 20724-20727.	6.6	175
5	On the feasibility of N2 fixation via a single-site FeI/FeIV cycle: Spectroscopic studies of FeI(N2)FeI, FeIVN, and related species. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17107-17112.	3.3	170
6	Catalytic Silylation of Dinitrogen with a Dicobalt Complex. Journal of the American Chemical Society, 2015, 137, 4638-4641.	6.6	162
7	Leveraging molecular metalâ€“support interactions for H2 and N2 activation. Coordination Chemistry Reviews, 2017, 334, 100-111.	9.5	148
8	Configuring Bonds between First-Row Transition Metals. Accounts of Chemical Research, 2015, 48, 2885-2894.	7.6	145
9	A Bimetallic Nickelâ€“Gallium Complex Catalyzes CO₂ Hydrogenation via the Intermediacy of an Anionic d¹⁰ Nickel Hydride. Journal of the American Chemical Society, 2017, 139, 14244-14250.	6.6	128
10	Systematic Variation of Metalâ€“Metal Bond Order in Metalâ€“Chromium Complexes. Journal of the American Chemical Society, 2013, 135, 13142-13148.	6.6	119
11	Bis(Î±-diimine)iron Complexes: Electronic Structure Determination by Spectroscopy and Broken Symmetry Density Functional Theoretical Calculations. Inorganic Chemistry, 2008, 47, 4579-4590.	1.9	94
12	Role of the Metal in the Bonding and Properties of Bimetallic Complexes Involving Manganese, Iron, and Cobalt. Journal of the American Chemical Society, 2014, 136, 1842-1855.	6.6	91
13	Dinitrogen Activation at Iron and Cobalt Metallalumatranes. European Journal of Inorganic Chemistry, 2013, 2013, 3898-3906.	1.0	88
14	Metalâ€“Metal Bonds: From Fundamentals to Applications. Inorganic Chemistry, 2017, 56, 7577-7581.	1.9	88
15	Well-Defined Rhodiumâ€“Gallium Catalytic Sites in a Metalâ€“Organic Framework: Promoter-Controlled Selectivity in Alkyne Semihydrogenation to <i>E</i>-Alkenes. Journal of the American Chemical Society, 2018, 140, 15309-15318.	6.6	88
16	Thermal Stabilization of Metalâ€“Organic Framework-Derived Single-Site Catalytic Clusters through Nanocasting. Journal of the American Chemical Society, 2016, 138, 2739-2748.	6.6	83
17	Quantum Chemical Characterization of Structural Single Fe(II) Sites in MIL-Type Metalâ€“Organic Frameworks for the Oxidation of Methane to Methanol and Ethane to Ethanol. ACS Catalysis, 2019, 9, 2870-2879.	5.5	82
18	Structure, Dynamics, and Reactivity for Light Alkane Oxidation of Fe(II) Sites Situated in the Nodes of a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 18142-18151.	6.6	80

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19	Rare-Earth Supported Nickel Catalysts for Alkyne Semihydrogenation: Chemo- and Regioselectivity Impacted by the Lewis Acidity and Size of the Support. Journal of the American Chemical Society, 2020, 142, 5396-5407.	6.6	80
20	Accessing the Different Redox States of Î±-Iminopyridines within Cobalt Complexes. Inorganic Chemistry, 2009, 48, 6055-6064.	1.9	79
21	Bimetallic Cobaltâ€“Dinitrogen Complexes: Impact of the Supporting Metal on N₂ Activation. Inorganic Chemistry, 2015, 54, 9263-9270.	1.9	77
22	Catalytic Copolymerization of CO and Ethylene with a Charge Neutral Palladium(II) Zwitterion. Journal of the American Chemical Society, 2002, 124, 5272-5273.	6.6	69
23	Synthetic, Structural, and Mechanistic Aspects of an Amine Activation Process Mediated at a Zwitterionic Pd(II) Center. Journal of the American Chemical Society, 2004, 126, 15818-15832.	6.6	69
24	An Electronâ€‘Transfer Series of Highâ€‘Valent Chromium Complexes with Redox Nonâ€‘Innocent, Nonâ€‘Heme Ligands. Angewandte Chemie - International Edition, 2008, 47, 6384-6387.	7.2	68
25	Multiple Metalâ€“Metal Bonds in Ironâ€“Chromium Complexes. Angewandte Chemie - International Edition, 2013, 52, 4449-4452.	7.2	68
26	Photochemical Route to Actinide-Transition Metal Bonds: Synthesis, Characterization and Reactivity of a Series of Thorium and Uranium Heterobimetallic Complexes. Journal of the American Chemical Society, 2014, 136, 3647-3654.	6.6	68
27	Stable Dihydrogen Complexes of Cobalt(âˆ’I) Suggest an Inverse <i>trans</i>-Influence of Lewis Acidic Group 13 Metalloligands. Journal of the American Chemical Society, 2017, 139, 6570-6573.	6.6	67
28	CO2 reduction by Fe(i): solvent control of Câ€“O cleavage versus Câ€“C coupling. Chemical Science, 2013, 4, 4042.	3.7	65
29	Role of a Modulator in the Synthesis of Phase-Pure NU-1000. ACS Applied Materials & Interfaces, 2017, 9, 39342-39346.	4.0	62
30	Installing Heterobimetallic Cobaltâ€“Aluminum Single Sites on a Metal Organic Framework Support. Chemistry of Materials, 2016, 28, 6753-6762.	3.2	56
31	Cobalt-Group 13 Complexes Catalyze CO₂ Hydrogenation via a Co(âˆ’I)/Co(I) Redox Cycle. ACS Catalysis, 2020, 10, 2459-2470.	5.5	55
32	Beyond Radical Rebound: Methane Oxidation to Methanol Catalyzed by Iron Species in Metalâ€“Organic Framework Nodes. Journal of the American Chemical Society, 2021, 143, 12165-12174.	6.6	51
33	Pushing the Limits of Delta Bonding in Metalâ€“Chromium Complexes with Redox Changes and Metal Swapping. Inorganic Chemistry, 2015, 54, 7579-7592.	1.9	46
34	First-Row Transition-Metal Chloride Complexes of the Wide Bite-Angle DiphosphineiPrDPDBFphos and Reactivity Studies of Monovalent Nickel. Inorganic Chemistry, 2011, 50, 9290-9299.	1.9	45
35	A Combined Spectroscopic and Computational Study of a High-Spin <i>S</i> = 7/2 Diiron Complex with a Short Ironâ€“Iron Bond. Inorganic Chemistry, 2012, 51, 728-736.	1.9	45
36	Heterobimetallic Complexes That Bond Vanadium to Iron, Cobalt, and Nickel. Inorganic Chemistry, 2015, 54, 11669-11679.	1.9	45

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37	Catalytic Hydrogenolysis of Aryl Câ€“F Bonds Using a Bimetallic Rhodiumâ€“Indium Complex. Journal of the American Chemical Society, 2020, 142, 11641-11646.	6.6	45
38	Bimetallic nickel-lutetium complexes: tuning the properties and catalytic hydrogenation activity of the Ni site by varying the Lu coordination environment. Chemical Science, 2019, 10, 3375-3384.	3.7	44
39	Pseudotetrahedral Manganese Complexes Supported by the Anionic Tris(phosphino)borate Ligand [PhBPiPr3]. Inorganic Chemistry, 2006, 45, 8597-8607.	1.9	42
40	The Monoanionic Ï€-Radical Redox State of Î±-Iminoketones in Bis(ligand)metal Complexes of Nickel and Cobalt. Inorganic Chemistry, 2007, 46, 7880-7889.	1.9	42
41	Mixed-Valent Dicobalt and Ironâ€“Cobalt Complexes with High-Spin Configurations and Short Metalâ€“Metal Bonds. Inorganic Chemistry, 2013, 52, 9216-9228.	1.9	41
42	Rationalizing the Reactivity of Bimetallic Molecular Catalysts for CO₂ Hydrogenation. ACS Catalysis, 2018, 8, 4955-4968.	5.5	39
43	Thermodynamic and kinetic studies of H₂ and N₂ binding to bimetallic nickel-group 13 complexes and neutron structure of a Ni(Î·²-H₂) adduct. Chemical Science, 2019, 10, 7029-7042.	3.7	38
44	Formal Nickelate(âˆ’I) Complexes Supported by Groupâ€…13 Ions. Angewandte Chemie - International Edition, 2018, 57, 7815-7819.	7.2	37
45	Influence of First and Second Coordination Environment on Structural Fe(II) Sites in MIL-101 for Câ€“H Bond Activation in Methane. ACS Catalysis, 2021, 11, 579-589.	5.5	35
46	Structure and dynamic NMR behavior of rhodium complexes supported by Lewis acidic group 13 metallatranes. Dalton Transactions, 2017, 46, 5689-5701.	1.6	31
47	Size Control of the MOF NU-1000 through Manipulation of the Modulator/Linker Competition. Crystal Growth and Design, 2020, 20, 2965-2972.	1.4	31
48	Cooperative Bond Activation and Facile Intramolecular Aryl Transfer of Nickelâ€“Aluminum Pincerâ€type Complexes. Angewandte Chemie - International Edition, 2021, 60, 15087-15094.	7.2	31
49	Electron Paramagnetic Resonance and Electron Nuclear Double Resonance Investigation of the Diradical Bis(Î±-iminopyridinato)zinc Complex. Inorganic Chemistry, 2009, 48, 2626-2632.	1.9	29
50	Mononuclear Five- and Six-Coordinate Iron Hydrazido and Hydrazine Species. Inorganic Chemistry, 2012, 51, 10043-10054.	1.9	29
51	Enhanced Fe-Centered Redox Flexibility in Feâ€“Ti Heterobimetallic Complexes. Inorganic Chemistry, 2019, 58, 6199-6214.	1.9	29
52	<i>Organometallics</i> Roundtable 2013â€“2014. Organometallics, 2014, 33, 1505-1527.	1.1	24
53	Bimetallic ironâ€“tin catalyst for N₂ to NH₃ and a silyldiazenido model intermediate. Chemical Communications, 2020, 56, 11030-11033.	2.2	23
54	Assembly of dicobalt and cobaltâ€“aluminum oxide clusters on metalâ€“organic framework and nanocast silica supports. Faraday Discussions, 2017, 201, 287-302.	1.6	21

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55	Site Densities, Rates, and Mechanism of Stable Ni/UiO-66 Ethylene Oligomerization Catalysts. Journal of the American Chemical Society, 2021, 143, 20274-20280.	6.6	21
56	Can Multiconfigurational Self-Consistent Field Theory and Density Functional Theory Correctly Predict the Ground State of Metalâ€"Metal-Bonded Complexes?. Journal of Chemical Theory and Computation, 2015, 11, 4093-4101.	2.3	20
57	Reductive Disproportionation of CO₂ Mediated by Bimetallic Nickelate(â€"I)/Group 13 Complexes. European Journal of Inorganic Chemistry, 2019, 2019, 2140-2145.	1.0	20
58	Bioinspired Nickel Complexes Supported by an Iron Metalloligand. Inorganic Chemistry, 2020, 59, 14251-14262.	1.9	20
59	One-electron Ni(ii)/(i) redox couple: potential role in hydrogen activation and production. Dalton Transactions, 2012, 41, 7862.	1.6	17
60	Synthesis, Characterization, and Polymerization Behavior of Zirconium and Hafnium Complexes that Contain Asymmetric Diamido-N-Donor Ligands. Organometallics, 2004, 23, 4362-4372.	1.1	16
61	Study of the Conformationally Flexible, Wide Bite-Angle Diphosphine 4,6-Bis(3-diisopropylphosphinophenyl)dibenzofuran in Rhodium(I) and Palladium(II) Coordination Complexes. Inorganic Chemistry, 2011, 50, 2545-2552.	1.9	16
62	Mechanistic Study on the Origin of the <i>Trans</i> Selectivity in Alkyne Semihydrogenation by a Heterobimetallic Rhodiumâ€"Gallium Catalyst in a Metalâ€"Organic Framework. Organometallics, 2019, 38, 3466-3473.	1.1	16
63	Multiple Bonds in Uraniumâ€"Transition Metal Complexes. Inorganic Chemistry, 2019, 58, 10139-10147.	1.9	16
64	Catalysis in MOFs: general discussion. Faraday Discussions, 2017, 201, 369-394.	1.6	14
65	Redox Pairs of Diiron and Ironâ€"Cobalt Complexes with High-Spin Ground States. Inorganic Chemistry, 2016, 55, 9725-9735.	1.9	13
66	Influence of Copper Oxidation State on the Bonding and Electronic Structure of Cobaltâ€"Copper Complexes. Inorganic Chemistry, 2015, 54, 11330-11338.	1.9	12
67	Formal Nickelate(â^'I) Complexes Supported by Groupâ€…13 Ions. Angewandte Chemie, 2018, 130, 7941-7945.	1.6	8
68	Toggling the Z-type interaction off-on in nickel-boron dihydrogen and anionic hydride complexes. Chemical Communications, 2022, 58, 8798-8801.	2.2	7
69	New directions in gas sorption and separation with MOFs: general discussion. Faraday Discussions, 2017, 201, 175-194.	1.6	6
70	One-electron bonds in copperâ€"aluminum and copperâ€"gallium complexes. Chemical Science, 2022, 13, 6525-6531.	3.7	6
71	Small-Molecule Activation by Reactive Metal Complexes. European Journal of Inorganic Chemistry, 2013, 2013, 3731-3732.	1.0	5
72	Synthesis and redox reactivity of a phosphine-ligated dichromium paddlewheel. Inorganica Chimica Acta, 2015, 424, 336-344.	1.2	4

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73	Cooperative Bond Activation and Facile Intramolecular Aryl Transfer of Nickelâ€“Aluminum Pincerâ€type Complexes. Angewandte Chemie, 2021, 133, 15214-15221.	1.6	4
74	Deciphering Cryptic Behavior in Bimetallic Transition-Metal Complexes with Machine Learning. Journal of Physical Chemistry Letters, 2021, 12, 9812-9820.	2.1	4
75	Encapsulating zinc(ii) within a hydrophobic cavity. Dalton Transactions, 2012, 41, 7464.	1.6	3
76	Spotlighting main group elements in polynuclear complexes. Chemical Science, 2021, 12, 1961-1963.	3.7	2