Louise Berben

List of Publications by Year
in descending order

62 papers	2,327 citations	159358 30 h-index	214527 47 g-index
66 all docs	66 docs citations	66 times ranked	2271 citing authors

#	Article	IF	Citations
1	Aluminumâ€Ligand Cooperative Oâˆ'H Bond Activation Initiates Catalytic Transfer Hydrogenation. ChemCatChem, 2022, 14, .	1.8	4
2	Cover Feature: Aluminumâ€Ligand Cooperative Oâˆ'H Bond Activation Initiates Catalytic Transfer Hydrogenation (ChemCatChem 13/2022). ChemCatChem, 2022, 14, .	1.8	0
3	Metal carbonyl clusters of groups 8â€"10: synthesis and catalysis. Chemical Society Reviews, 2021, 50, 9503-9539.	18.7	40
4	Delocalization tunable by ligand substitution in [L2Al]nâˆ' complexes highlights a mechanism for strong electronic coupling. Chemical Science, 2021, 12, 675-682.	3.7	5
5	Quantification of the Electrostatic Effect on Redox Potential by Positive Charges in a Catalyst Microenvironment. Journal of Physical Chemistry Letters, 2021, 12, 3066-3073.	2.1	8
6	Cobalt Carbonyl Clusters Enable Independent Control of Two Proton Transfer Rates in the Mechanism for Hydrogen Evolution. ChemElectroChem, 2021, 8, 2488-2494.	1.7	8
7	Synthesis of Unsupported Primary Phosphido Complexes of Aluminum(III). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1824-1829.	0.6	1
8	Syntheses of Square Planar Gallium Complexes and a Proton NMR Correlation Probing Metalloaromaticity. Inorganic Chemistry, 2020, 59, 13517-13523.	1.9	20
9	A Stable Organo-Aluminum Analyte Enables Multielectron Storage for a Nonaqueous Redox Flow Battery. Journal of Physical Chemistry Letters, 2020, 11, 8202-8207.	2.1	4
10	Ligand Conjugation Directs the Formation of a 1,3-Dihydropyridinate Regioisomer. Inorganic Chemistry, 2020, 59, 17614-17619.	1.9	4
11	Fast Proton Transfer and Hydrogen Evolution Reactivity Mediated by [Co₁₃C₂(CO)₂₄]^{4â€"}. Journal of the American Chemical Society, 2020, 142, 12299-12305.	6.6	23
12	Breaking Scaling Relationships in CO₂ Electroreduction with Isoelectronic Analogs [Fe₄N(CO)₁₂]^{âˆ'} and [Fe₃MnO(CO)₁₂]^{âˆ'}. Organometallics, 2020, 39, 1658-1663.	1.1	4
13	Control of Substrates Beyond the Catalyst Active Site. ACS Central Science, 2019, 5, 1485-1487.	5.3	2
14	Organic Electron Delocalization Modulated by Ligand Charge States in [L₂M]^{<i>nâ€"</i>}Complexes of Group 13 Ions. Journal of the American Chemical Society, 2019, 141, 15792-15803.	6.6	20
15	New Characterization of V{N(SiMe3)2}3: Reductions of Tris[bis(trimethylsilyl)amido]vanadium(III) and -chromium(III) To Afford the Reduced Metal(II) Anions [M{N(SiMe3)2}3]âˆ' (M = V and Cr). Inorganic Chemistry, 2019, 58, 6095-6101.	1.9	15
16	Secondary Coordination Sphere Design to Modify Transport of Protons and CO₂. Inorganic Chemistry, 2019, 58, 16849-16857.	1.9	19
17	Electrocatalytic Reduction of CO₂ into Formate with Glassy Carbon Modified by [Fe₄N(CO)₁₁(PPh₂Ph-linker)]^{âˆ'}. Organometallics, 2019, 38, 1230-1235.	1.1	14
18	Frontispiece: Electrochemical Reduction of N2 to NH3 at Low Potential by a Molecular Aluminum Complex. Chemistry - A European Journal, 2019, 25, .	1.7	0

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19	Electrochemical Reduction of N₂ to NH₃ at Low Potential by a Molecular Aluminum Complex. Chemistry - A European Journal, 2019, 25, 454-458.	1.7	38
20	Quantum chemical studies of redox properties and conformational changes of a four-center iron CO₂ reduction electrocatalyst. Chemical Science, 2018, 9, 2645-2654.	3.7	6
21	Considering a Possible Role for [H-Fe₄N(CO)₁₂]^{2â€“} in Selective Electrocatalytic CO₂ Reduction to Formate by [Fe₄N(CO)₁₂]^{âˆ’}. Organometallics, 2018, 37, 1087-1091.	1.1	15
22	Reversible Coordination of H₂ by a Distannyne. Journal of the American Chemical Society, 2018, 140, 590-593.	6.6	50
23	A Ligand Protonation Series in Aluminum(III) Complexes of Tridentate Bis(enol)amine Ligand. Organometallics, 2018, 37, 4527-4533.	1.1	1
24	Electrochemical Methods for Assessing Kinetic Factors in the Reduction of CO₂ to Formate: Implications for Improving Electrocatalyst Design. ACS Catalysis, 2018, 8, 5787-5793.	5.5	38
25	Control of Ligand p<i>K</i>_a Values Tunes the Electrocatalytic Dihydrogen Evolution Mechanism in a Redox-Active Aluminum(III) Complex. Inorganic Chemistry, 2017, 56, 8651-8660.	1.9	57
26	Renewable Formate from Câ€“H Bond Formation with CO₂: Using Iron Carbonyl Clusters as Electrocatalysts. Accounts of Chemical Research, 2017, 50, 2362-2370.	7.6	78
27	High turnover in electro-oxidation of alcohols and ethers with a glassy carbon-supported phenanthroimidazole mediator. Chemical Science, 2017, 8, 6493-6498.	3.7	24
28	Dispersionâ€Forceâ€Assisted Disproportionation: A Stable Twoâ€Coordinate Copper(II) Complex. Angewandte Chemie - International Edition, 2016, 55, 10444-10447.	7.2	33
29	Dispersionâ€Forceâ€Assisted Disproportionation: A Stable Twoâ€Coordinate Copper(II) Complex. Angewandte Chemie, 2016, 128, 10600-10603.	1.6	10
30	Making Câ€“H bonds with CO₂: production of formate by molecular electrocatalysts. Chemical Communications, 2016, 52, 1768-1777.	2.2	92
31	A pendant proton shuttle on [Fe₄N(CO)₁₂]^{âˆ’}alters product selectivity in formate vs. H₂production via the hydride [Hâ€“Fe₄N(CO)₁₂]^{âˆ’}. Chemical Science, 2016, 7, 2728-2735.	3.7	61
32	Tailoring Electrocatalysts for Selective CO₂ or H⁺ Reduction: Iron Carbonyl Clusters as a Case Study. Inorganic Chemistry, 2016, 55, 378-385.	1.9	81
33	Insight into Varied Reaction Pathways for Oâ€“H and Nâ€“H Bond Activation by Bis(imino)pyridine Complexes of Al(III). Organometallics, 2016, 35, 9-14.	1.1	31
34	Synthesis and characterization of bis(imino)pyridine complexes of divalent Mg and Zn. Dalton Transactions, 2016, 45, 5989-5998.	1.6	35
35	Electrocatalytic Hydrogen Production by an Aluminum(III) Complex: Ligandâ€Based Proton and Electron Transfer. Angewandte Chemie - International Edition, 2015, 54, 11642-11646.	7.2	118
36	Frontispiz: Electrocatalytic Hydrogen Production by an Aluminum(III) Complex: Ligand-Based Proton and Electron Transfer. Angewandte Chemie, 2015, 127, n/a-n/a.	1.6	0

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37	Frontispiece: Electrocatalytic Hydrogen Production by an Aluminum(III) Complex: Ligandâ€Based Proton and Electron Transfer. Angewandte Chemie - International Edition, 2015, 54, .	7.2	0
38	Mixed interlayers at the interface between PEDOT:PSS and conjugated polymers provide charge transport control. Journal of Materials Chemistry C, 2015, 3, 2664-2676.	2.7	26
39	Formation of a Stable Complex, RuCl₂(S₂CPPh₃)(PPh₃)₂, Containing an Unstable Zwitterion from the Reaction of RuCl₂(PPh₃)₃ with Carbon Disulfide. Inorganic Chemistry, 2015, 54, 4565-4573.	1.9	12
40	An Iron Electrocatalyst for Selective Reduction of CO₂ to Formate in Water: Including Thermochemical Insights. ACS Catalysis, 2015, 5, 7140-7151.	5.5	177
41	Non-innocent ligands. Chemical Communications, 2015, 51, 1553-1554.	2.2	106
42	Catalysis by Aluminum(III) Complexes of Nonâ€Innocent Ligands. Chemistry - A European Journal, 2015, 21, 2734-2742.	1.7	96
43	Synthesis of Squareâ€Planar Aluminum(III) Complexes. Angewandte Chemie - International Edition, 2014, 53, 14132-14134.	7.2	66
44	High work-function hole transport layers by self-assembly using a fluorinated additive. Journal of Materials Chemistry C, 2014, 2, 115-123.	2.7	21
45	Metal-mediated transformations of small molecules. Chemical Communications, 2014, 50, 7221.	2.2	3
46	Aluminumâ€“Amido-Mediated Heterolytic Addition of Water Affords an Alumoxane. Organometallics, 2013, 32, 6647-6649.	1.1	30
47	Aluminumâ€“Ligand Cooperative Nâ€“H Bond Activation and an Example of Dehydrogenative Coupling. Journal of the American Chemical Society, 2013, 135, 9988-9990.	6.6	116
48	Electrocatalytic Hydrogen Evolution from Water by a Series of Iron Carbonyl Clusters. Inorganic Chemistry, 2013, 52, 12847-12854.	1.9	80
49	Redoxâ€Induced Carbonâ€“Carbon Bond Formation by Using Noninnocent Ligands. European Journal of Inorganic Chemistry, 2013, 2013, 3831-3835.	1.0	18
50	A redox series of gallium(iii) complexes: ligand-based two-electron oxidation affords a galliumâ€“thiolate complex. Dalton Transactions, 2012, 41, 7969.	1.6	22
51	A Sterically Demanding Iminopyridine Ligand Affords Redox-Active Complexes of Aluminum(III) and Gallium(III). Inorganic Chemistry, 2012, 51, 1480-1488.	1.9	36
52	Redox Routes to Substitution of Aluminum(III): Synthesis and Characterization of (IP^{â€“})₂AlX (IP = Î±-iminopyridine, X = Cl, Me, SMe,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (S<sub>2</ 8997-9004.	1.9	40
53	(IP)₂Ga^{III} Complexes Facilitate Net Two-Electron Redox Transformations (IP =) Tj ETQq1 1 0.784314 rgBT /Ov	1.9	29
54	Mild Reduction Route to a Redox-Active Silicon Complex: Structure and Properties of (IP^{2â€“})₂Si and (IP^{â€“})₂Mg(THF) (IP = Î±-Iminopyridine). Organometallics, 2012, 31, 3463-3465.	1.1	10

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55	A Redox Series of Aluminum Complexes: Characterization of Four Oxidation States Including a Ligand Biradical State Stabilized via Exchange Coupling. Journal of the American Chemical Society, 2011, 133, 8662-8672.	6.6	95
56	Countercations Direct One- or Two-Electron Oxidation of an Al(III) Complex and Al(III)â€“Oxo Intermediates Activate Câ€“H Bonds. Journal of the American Chemical Society, 2011, 133, 11865-11867.	6.6	51
57	Directing the Reactivity of [HFe₄N(CO)₁₂]^{âˆ’} toward H⁺ or CO₂ Reduction by Understanding the Electrocatalytic Mechanism. Journal of the American Chemical Society, 2011, 133, 18577-18579.	6.6	110
58	Dinitrogen and Acetylide Complexes of Low-Valent Chromium. Inorganic Chemistry, 2008, 47, 4639-4647.	1.9	36
59	Angle-Dependent Electronic Effects in 4,4â€˜-Bipyridine-Bridged Ru3Triangle and Ru4Square Complexes. Inorganic Chemistry, 2006, 45, 6378-6386.	1.9	52
60	Homoleptic Trimethylsilylacetylide Complexes of Chromium(III), Iron(II), and Cobalt(III):Â Syntheses, Structures, and Ligand Field Parameters. Inorganic Chemistry, 2005, 44, 8459-8468.	1.9	45
61	Synthesis and characterization of a decacobalt carbonyl cluster with two semi-interstitial phosphorus atoms. Dalton Transactions, 2003, , 2119.	1.6	12
62	Synthesis and Alkali Metal Ion-Binding Properties of a Chromium(III) Triacetylide Complex. Journal of the American Chemical Society, 2002, 124, 11588-11589.	6.6	33