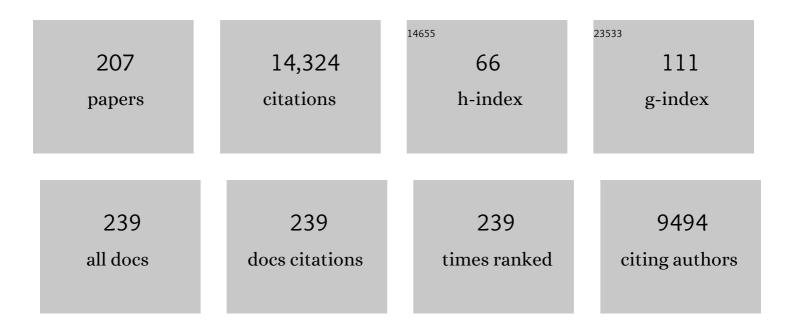
## **R** Morris Bullock

List of Publications by Year in descending order

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P MODRIS RILLOCK

#	Article	IF	CITATIONS
1	Computational Investigations of the Reactivity of Metalloporphyrins for Ammonia Oxidation. Topics in Catalysis, 2022, 65, 341-353.	2.8	4
2	Controlling Reaction Routes in Nobleâ€Metal atalyzed Conversion of Aryl Ethers. Angewandte Chemie - International Edition, 2022, 61, .	13.8	3
3	Molecular Catalysts with Diphosphine Ligands Containing Pendant Amines. Chemical Reviews, 2022, 122, 12427-12474.	47.7	48
4	Weakening the N–H Bonds of NH <sub>3</sub> Ligands: Triple Hydrogen-Atom Abstraction to Form a Chromium(V) Nitride. Inorganic Chemistry, 2022, 61, 11165-11172.	4.0	6
5	Splitting of multiple hydrogen molecules by bioinspired diniobium metal complexes: a DFT study. Dalton Transactions, 2021, 50, 840-849.	3.3	5
6	Accelerating the insertion reactions of (NHC)Cu–H <i>via</i> remote ligand functionalization. Chemical Science, 2021, 12, 11495-11505.	7.4	16
7	Influence of Surface and Structural Variations in Donor–Acceptor–Donor Sensitizers on Photoelectrocatalytic Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 47499-47510.	8.0	3
8	The Critical Role of Reductive Steps in the Nickel atalyzed Hydrogenolysis and Hydrolysis of Aryl Ether Câ^'O Bonds. Angewandte Chemie - International Edition, 2020, 59, 1445-1449.	13.8	40
9	The Critical Role of Reductive Steps in the Nickelâ€Catalyzed Hydrogenolysis and Hydrolysis of Aryl Ether Câ^'O Bonds. Angewandte Chemie, 2020, 132, 1461-1465.	2.0	6
10	Using natureâ $€$ ™s blueprint to expand catalysis with Earth-abundant metals. Science, 2020, 369, .	12.6	306
11	Controlling P–C/C–H Bond Cleavage in Nickel Bis(diphosphine) Complexes: Reactivity Scope, Mechanism, and Computations. Organometallics, 2020, 39, 3306-3314.	2.3	5
12	Oxidation of Ammonia with Molecular Complexes. Journal of the American Chemical Society, 2020, 142, 17845-17858.	13.7	70
13	Mechanistic Studies on the Insertion of Carbonyl Substrates into Cuâ€H: Different Rateâ€Limiting Steps as a Function of Electrophilicity. Angewandte Chemie, 2020, 132, 8723-8731.	2.0	5
14	Diversion of Catalytic C–N Bond Formation to Catalytic Oxidation of NH <sub>3</sub> through Modification of the Hydrogen Atom Abstractor. Journal of the American Chemical Society, 2020, 142, 3361-3365.	13.7	46
15	Mechanistic Studies on the Insertion of Carbonyl Substrates into Cuâ€H: Different Rateâ€Limiting Steps as a Function of Electrophilicity. Angewandte Chemie - International Edition, 2020, 59, 8645-8653.	13.8	16
16	Frontispiece: Catalytic Ammonia Oxidation to Dinitrogen by Hydrogen Atom Abstraction. Angewandte Chemie - International Edition, 2019, 58, .	13.8	0
17	Frontispiz: Catalytic Ammonia Oxidation to Dinitrogen by Hydrogen Atom Abstraction. Angewandte Chemie, 2019, 131, .	2.0	1
18	Anion control of tautomeric equilibria: Fe–H <i>vs.</i> N–H influenced by NHâ‹⁻F hydrogen bonding. Chemical Science, 2019, 10, 1410-1418.	7.4	14

#	Article	IF	CITATIONS
19	H <sub>2</sub> Binding, Splitting, and Net Hydrogen Atom Transfer at a Paramagnetic Iron Complex. Journal of the American Chemical Society, 2019, 141, 1871-1876.	13.7	25
20	A Silicon-Based Heterojunction Integrated with a Molecular Excited State in a Water-Splitting Tandem Cell. Journal of the American Chemical Society, 2019, 141, 10390-10398.	13.7	34
21	Catalytic Ammonia Oxidation to Dinitrogen by Hydrogen Atom Abstraction. Angewandte Chemie, 2019, 131, 11744-11750.	2.0	9
22	Catalytic Ammonia Oxidation to Dinitrogen by Hydrogen Atom Abstraction. Angewandte Chemie - International Edition, 2019, 58, 11618-11624.	13.8	52
23	Evaluation of attractive interactions in the second coordination sphere of iron complexes containing pendant amines. Dalton Transactions, 2019, 48, 4867-4878.	3.3	12
24	Operando XAFS Studies on Rh(CAAC)-Catalyzed Arene Hydrogenation. ACS Catalysis, 2019, 9, 4106-4114.	11.2	46
25	Design and reactivity of pentapyridyl metal complexes for ammonia oxidation. Chemical Communications, 2019, 55, 5083-5086.	4.1	27
26	Triple hydrogen atom abstraction from Mn–NH <sub>3</sub> complexes results in cyclophosphazenium cations. Chemical Communications, 2019, 55, 14058-14061.	4.1	17
27	Outer Coordination Sphere Proton Relay Base and Proximity Effects on Hydrogen Oxidation with Iron Electrocatalysts. Organometallics, 2019, 38, 1391-1396.	2.3	7
28	Reversing the Tradeoff between Rate and Overpotential in Molecular Electrocatalysts for H <sub>2</sub> Production. ACS Catalysis, 2018, 8, 3286-3296.	11.2	79
29	Catalytic Silylation of N2and Synthesis of NH3and N2H4by Net Hydrogen Atom Transfer Reactions Using a Chromium P4Macrocycle. Journal of the American Chemical Society, 2018, 140, 2528-2536.	13.7	78
30	Beyond fossil fuelâ $\in$ "driven nitrogen transformations. Science, 2018, 360, .	12.6	1,379
31	Rh(CAAC)-Catalyzed Arene Hydrogenation: Evidence for Nanocatalysis and Sterically Controlled Site-Selective Hydrogenation. ACS Catalysis, 2018, 8, 8441-8449.	11.2	94
32	H 2 Oxidation Electrocatalysis Enabled by Metalâ€ŧoâ€Metal Hydrogen Atom Transfer: A Homolytic Approach to a Heterolytic Reaction. Angewandte Chemie, 2018, 130, 13711-13715.	2.0	0
33	H <sub>2</sub> Oxidation Electrocatalysis Enabled by Metalâ€toâ€Metal Hydrogen Atom Transfer: A Homolytic Approach to a Heterolytic Reaction. Angewandte Chemie - International Edition, 2018, 57, 13523-13527.	13.8	13
34	Ammonia Oxidation by Abstraction of Three Hydrogen Atoms from a Mo–NH <sub>3</sub> Complex. Journal of the American Chemical Society, 2017, 139, 2916-2919.	13.7	54
35	Surface Immobilization of Molecular Electrocatalysts for Energy Conversion. Chemistry - A European Journal, 2017, 23, 7626-7641.	3.3	159
36	Reaction: Earth-Abundant Metal Catalysts for Energy Conversions. CheM, 2017, 2, 444-446.	11.7	32

#	Article	IF	CITATIONS
37	Reversible Heterolytic Cleavage of the H–H Bond by Molybdenum Complexes: Controlling the Dynamics of Exchange Between Proton and Hydride. Journal of the American Chemical Society, 2017, 139, 7376-7387.	13.7	48
38	Impact of Weak Agostic Interactions in Nickel Electrocatalysts for Hydrogen Oxidation. Organometallics, 2017, 36, 2275-2284.	2.3	16
39	Catalytic N <sub>2</sub> Reduction to Silylamines and Thermodynamics of N <sub>2</sub> Binding at Square Planar Fe. Journal of the American Chemical Society, 2017, 139, 9291-9301.	13.7	72
40	Modulating Hole Transport in Multilayered Photocathodes with Derivatized p-Type Nickel Oxide and Molecular Assemblies for Solar-Driven Water Splitting. Journal of Physical Chemistry Letters, 2017, 8, 4374-4379.	4.6	47
41	Frustration across the periodic table: heterolytic cleavage of dihydrogen by metal complexes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20170002.	3.4	33
42	Layer-by-Layer Molecular Assemblies for Dye-Sensitized Photoelectrosynthesis Cells Prepared by Atomic Layer Deposition. Journal of the American Chemical Society, 2017, 139, 14518-14525.	13.7	55
43	Frontispiece: Surface Immobilization of Molecular Electrocatalysts for Energy Conversion. Chemistry - A European Journal, 2017, 23, .	3.3	0
44	Putting chromium on the map for N <sub>2</sub> reduction: production of hydrazine and ammonia. A study of cis-M(N <sub>2</sub> ) <sub>2</sub> (M = Cr, Mo, W) bis(diphosphine) complexes. Chemical Communications, 2016, 52, 9343-9346.	4.1	26
45	Virtual Special Issue on Catalysis at the U.S. Department of Energy's National Laboratories. ACS Catalysis, 2016, 6, 3227-3235.	11.2	2
46	Controlling Proton Delivery through Catalyst Structural Dynamics. Angewandte Chemie - International Edition, 2016, 55, 13509-13513.	13.8	48
47	Thermodynamic Hydricity of Transition Metal Hydrides. Chemical Reviews, 2016, 116, 8655-8692.	47.7	365
48	Photogeneration of hydrogen from water by a robust dye-sensitized photocathode. Energy and Environmental Science, 2016, 9, 3693-3697.	30.8	61
49	Controlling Proton Delivery through Catalyst Structural Dynamics. Angewandte Chemie, 2016, 128, 13707-13711.	2.0	12
50	Electrochemical Detection of Transient Cobalt Hydride Intermediates of Electrocatalytic Hydrogen Production. Journal of the American Chemical Society, 2016, 138, 8309-8318.	13.7	89
51	Facile Pâ^'C/Câ^'H Bondâ€Cleavage Reactivity of Nickel Bis(diphosphine) Complexes. Chemistry - A European Journal, 2016, 22, 9493-9497.	3.3	3
52	Experimental and Computational Mechanistic Studies Guiding the Rational Design of Molecular Electrocatalysts for Production and Oxidation of Hydrogen. Inorganic Chemistry, 2016, 55, 445-460.	4.0	67
53	Toward Benchmarking in Catalysis Science: Best Practices, Challenges, and Opportunities. ACS Catalysis, 2016, 6, 2590-2602.	11.2	190
54	Covalent attachment of diphosphine ligands to glassy carbon electrodes via Cu-catalyzed alkyne-azide cycloaddition. Metallation with Ni( <scp>ii</scp> ). Dalton Transactions, 2015, 44, 12225-12233.	3.3	14

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55	Iron Complexes Bearing Diphosphine Ligands with Positioned Pendant Amines as Electrocatalysts for the Oxidation of H <sub>2</sub> . Organometallics, 2015, 34, 2747-2764.	2.3	37
56	Electrocatalytic Hydrogen Production by [Ni(7P <sup>Ph</sup> <sub>2</sub> N <sup>H</sup> ) <sub>2</sub> ] <sup>2+</sup> : Removing the Distinction Between Endo- and Exo-Protonation Sites. ACS Catalysis, 2015, 5, 2116-2123.	11.2	20
57	Toward Molecular Catalysts by Computer. Accounts of Chemical Research, 2015, 48, 248-255.	15.6	65
58	Synthesis and Protonation Studies of Molybdenum(0) Bis(diÂnitrogen) Complexes Supported by Diphosphine Ligands ÂContaining Pendant Amines. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 105-117.	1.2	15
59	Molecular Electrocatalysts for Oxidation of Hydrogen Using Earth-Abundant Metals: Shoving Protons Around with Proton Relays. Accounts of Chemical Research, 2015, 48, 2017-2026.	15.6	144
60	Molybdenum Hydride and Dihydride Complexes Bearing Diphosphine Ligands with a Pendant Amine: Formation of Complexes with Bound Amines. Inorganic Chemistry, 2015, 54, 6397-6409.	4.0	20
61	Protonation Studies of a Mono-Dinitrogen Complex of Chromium Supported by a 12-Membered Phosphorus Macrocycle Containing Pendant Amines. Inorganic Chemistry, 2015, 54, 4827-4839.	4.0	32
62	Water-assisted proton delivery and removal in bio-inspired hydrogen production catalysts. Dalton Transactions, 2015, 44, 10969-10979.	3.3	28
63	Increasing the rate of hydrogen oxidation without increasing the overpotential: a bio-inspired iron molecular electrocatalyst with an outer coordination sphere proton relay. Chemical Science, 2015, 6, 2737-2745.	7.4	40
64	Manganese-Based Molecular Electrocatalysts for Oxidation of Hydrogen. ACS Catalysis, 2015, 5, 6838-6847.	11.2	43
65	Ab Initio-Based Kinetic Modeling for the Design of Molecular Catalysts: The Case of H <sub>2</sub> Production Electrocatalysts. ACS Catalysis, 2015, 5, 5436-5452.	11.2	38
66	Heterolytic cleavage of H <sub>2</sub> by bifunctional manganese( <scp>i</scp> ) complexes: impact of ligand dynamics, electrophilicity, and base positioning. Chemical Science, 2014, 5, 4729-4741.	7.4	44
67	Heterolytic Cleavage of Hydrogen by an Iron Hydrogenase Model: An Feâ€Hâ‹â‹â‹Hâ€N Dihydrogen Bond Characterized by Neutron Diffraction. Angewandte Chemie - International Edition, 2014, 53, 5300-5304.	13.8	102
68	Frontispiece: Heterolytic Cleavage of Hydrogen by an Iron Hydrogenase Model: An Fe-Hâ‹â‹â‹H-N Dihydroger Bond Characterized by Neutron Diffraction. Angewandte Chemie - International Edition, 2014, 53, n/a-n/a.	ו 13.8	0
69	Protonation Studies of a Tungsten Dinitrogen Complex Supported by a Diphosphine Ligand Containing a Pendant Amine. Organometallics, 2014, 33, 2189-2200.	2.3	26
70	Comparison of the One-Electron Oxidations of CO-Bridged vs Unbridged Bimetallic Complexes: Electron-Transfer Chemistry of Os <sub>2</sub> Cp <sub>2</sub> (CO) <sub>4</sub> and Os <sub>2</sub> Cp* <sub>2</sub> (μ-CO) <sub>2</sub> (CO) <sub>2</sub> (CP =) Tj ETQq0 0 0 rgBT /Overlock	1203Tf 50	1 <b>3⁄7</b> Td (Î∙ <s< td=""></s<>
71	Organometallics, 2014, 33, 4716-4728. Production of hydrogen by electrocatalysis: making the H–H bond by combining protons and hydrides. Chemical Communications, 2014, 50, 3125-3143.	4.1	244
72	Controlling proton movement: electrocatalytic oxidation of hydrogen by a nickel( <scp>ii</scp> ) complex containing proton relays in the second and outer coordination spheres. Dalton Transactions, 2014, 43, 2744-2754.	3.3	35

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73	Electrocatalytic H <sub>2</sub> production with a turnover frequency >10 <sup>7</sup> s <sup>â°1</sup> : the medium provides an increase in rate but not overpotential. Energy and Environmental Science, 2014, 7, 4013-4017.	30.8	49
74	Computing Free Energy Landscapes: Application to Ni-based Electrocatalysts with Pendant Amines for H <sub>2</sub> Production and Oxidation. ACS Catalysis, 2014, 4, 229-242.	11.2	68
75	Electrochemical oxidation of H <sub>2</sub> catalyzed by ruthenium hydride complexes bearing P <sub>2</sub> N <sub>2</sub> ligands with pendant amines as proton relays. Energy and Environmental Science, 2014, 7, 3630-3639.	30.8	20
76	Iron Complexes for the Electrocatalytic Oxidation of Hydrogen: Tuning Primary and Secondary Coordination Spheres. ACS Catalysis, 2014, 4, 1246-1260.	11.2	47
77	Cobalt Complexes Containing Pendant Amines in the Second Coordination Sphere as Electrocatalysts for H <sub>2</sub> Production. Organometallics, 2014, 33, 5820-5833.	2.3	66
78	Kinetic and Mechanistic Studies of Carbon-to-Metal Hydrogen Atom Transfer Involving Os-Centered Radicals: Evidence for Tunneling. Journal of the American Chemical Society, 2014, 136, 3572-3578.	13.7	25
79	Proton and Electron Additions to Iron(II) Dinitrogen Complexes Containing Pendant Amines. Organometallics, 2014, 33, 1333-1336.	2.3	14
80	A Hydrogen-Evolving Ni(P <sub>2</sub> N <sub>2</sub> ) <sub>2</sub> Electrocatalyst Covalently Attached to a Glassy Carbon Electrode: Preparation, Characterization, and Catalysis. Comparisons with the Homogeneous Analogue. Inorganic Chemistry, 2014, 53, 6875-6885.	4.0	49
81	Frontispiz: Heterolytic Cleavage of Hydrogen by an Iron Hydrogenase Model: An Fe-Hâ‹â‹â‹H-N Dihydrogen Bond Characterized by Neutron Diffraction. Angewandte Chemie, 2014, 126, n/a-n/a.	2.0	0
82	Evaluation of the Role of Water in the H <sub>2</sub> Bond Formation by Ni(II)-Based Electrocatalysts. Journal of Chemical Theory and Computation, 2013, 9, 3505-3514.	5.3	7
83	Rapid, Reversible Heterolytic Cleavage of Bound H <sub>2</sub> . Journal of the American Chemical Society, 2013, 135, 11736-11739.	13.7	67
84	Production of H2 at fast rates using a nickel electrocatalyst in water–acetonitrile solutions. Chemical Communications, 2013, 49, 7767.	4.1	81
85	Dinitrogen Reduction by a Chromium(0) Complex Supported by a 16-Membered Phosphorus Macrocycle. Journal of the American Chemical Society, 2013, 135, 11493-11496.	13.7	81
86	Synthesis and Electrochemical Studies of Cobalt(III) Monohydride Complexes Containing Pendant Amines. Inorganic Chemistry, 2013, 52, 9975-9988.	4.0	62
87	Isolation of Two Agostic Isomers of an Organometallic Cation: Different Structures and Colors. Angewandte Chemie - International Edition, 2013, 52, 10190-10194.	13.8	22
88	Metal-Centered 17-Electron Radicals CpM(CO) <sub>3</sub> <sup>•</sup> (M = Cr, Mo, W): A Combined Negative Ion Photoelectron Spectroscopic and Theoretical Study. Organometallics, 2013, 32, 2084-2091.	2.3	12
89	Thermochemical and Mechanistic Studies of Electrocatalytic Hydrogen Production by Cobalt Complexes Containing Pendant Amines. Inorganic Chemistry, 2013, 52, 14391-14403.	4.0	82
90	Hydrogen Production Using Nickel Electrocatalysts with Pendant Amines: Ligand Effects on Rates and Overpotentials. ACS Catalysis, 2013, 3, 2527-2535.	11.2	70

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91	The Electrode as Organolithium Reagent: Catalyst-Free Covalent Attachment of Electrochemically Active Species to an Azide-Terminated Glassy Carbon Electrode Surface. Inorganic Chemistry, 2013, 52, 13674-13684.	4.0	10
92	Abundant Metals Give Precious Hydrogenation Performance. Science, 2013, 342, 1054-1055.	12.6	268
93	Isolation of Two Agostic Isomers of an Organometallic Cation: Different Structures and Colors. Angewandte Chemie, 2013, 125, 10380-10384.	2.0	5
94	An iron complex with pendent amines as a molecular electrocatalyst for oxidation of hydrogen. Nature Chemistry, 2013, 5, 228-233.	13.6	218
95	High Catalytic Rates for Hydrogen Production Using Nickel Electrocatalysts with Seven-Membered Cyclic Diphosphine Ligands Containing One Pendant Amine. Journal of the American Chemical Society, 2013, 135, 6033-6046.	13.7	137
96	Structural and Spectroscopic Characterization of 17- and 18-Electron Piano-Stool Complexes of Chromium. Thermochemical Analyses of Weak Cr–H Bonds. Inorganic Chemistry, 2013, 52, 1591-1603.	4.0	23
97	Protonation of Ferrous Dinitrogen Complexes Containing a Diphosphine Ligand with a Pendent Amine. Inorganic Chemistry, 2013, 52, 4026-4039.	4.0	28
98	Bio-Inspired Molecular Catalysts for Hydrogen Oxidation and Hydrogen Production. ACS Symposium Series, 2013, , 89-111.	0.5	7
99	Direct Determination of Equilibrium Potentials for Hydrogen Oxidation/Production by Open Circuit Potential Measurements in Acetonitrile. Inorganic Chemistry, 2013, 52, 3823-3835.	4.0	160
100	Two Pathways for Electrocatalytic Oxidation of Hydrogen by a Nickel Bis(diphosphine) Complex with Pendant Amines in the Second Coordination Sphere. Journal of the American Chemical Society, 2013, 135, 9700-9712.	13.7	119
101	Conformational Dynamics and Proton Relay Positioning in Nickel Catalysts for Hydrogen Production and Oxidation. Organometallics, 2013, 32, 7034-7042.	2.3	36
102	Acidic ionic liquid/water solution as both medium and proton source for electrocatalytic H <sub>2</sub> evolution by [Ni(P <sub>2</sub> N <sub>2</sub> ) <sub>2</sub> ] <sup>2+</sup> complexes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15634-15639.	7.1	78
103	Synthesis and reactivity of molybdenum and tungsten bis(dinitrogen) complexes supported by diphosphine chelates containing pendant amines. Dalton Transactions, 2012, 41, 4517.	3.3	34
104	Proton Delivery and Removal in [Ni(P <sup>R</sup> <sub>2</sub> N <sup>R<sup>′</sup>2)<sub>2</sub>]<sup>2+</sup> Hydrogen Production and Oxidation Catalysts. Journal of the American Chemical Society, 2012, 134, 19409-19424.</sup>	13.7	122
105	Synthesis, Characterization, and Reactivity of Fe Complexes Containing Cyclic Diazadiphosphine Ligands: The Role of the Pendant Base in Heterolytic Cleavage of H <sub>2</sub> . Journal of the American Chemical Society, 2012, 134, 6257-6272.	13.7	91
106	Stabilization of Nickel Complexes with NiO··Ĥ–N Bonding Interactions Using Sterically Demanding Cyclic Diphosphine Ligands. Organometallics, 2012, 31, 144-156.	2.3	66
107	Facile Thermal W–W Bond Homolysis in the N-Heterocyclic Carbene Containing Tungsten Dimer [CpW(CO) <sub>2</sub> (IMe)] <sub>2</sub> . Organometallics, 2012, 31, 1775-1789.	2.3	20
108	[Ni(P <sup>Me</sup> <sub>2</sub> N <sup>Ph</sup> <sub>2</sub> ) <sub>2</sub> ](BF <sub>4</sub> ) <sub>2</sub> ]	- ۱۱.2	95

as an Electrocatalyst for H<sub>2</sub> Production. ACS Catalysis, 2012, 2, 720-727.

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109	Reversible Electrocatalytic Production and Oxidation of Hydrogen at Low Overpotentials by a Functional Hydrogenase Mimic. Angewandte Chemie - International Edition, 2012, 51, 3152-3155.	13.8	128
110	Dinuclear Metalloradicals Featuring Unsupported Metal–Metal Bonds. Angewandte Chemie - International Edition, 2012, 51, 8361-8364.	13.8	15
111	The Role of Pendant Amines in the Breaking and Forming of Molecular Hydrogen Catalyzed by Nickel Complexes. Chemistry - A European Journal, 2012, 18, 6493-6506.	3.3	102
112	[Ni(P <sup>Ph</sup> <sub>2</sub> N <sup>C6H4X</sup> <sub>2</sub> ) <sub>2</sub> ] <sup>2+</sup> Complexes as Electrocatalysts for H <sub>2</sub> Production: Effect of Substituents, Acids, and Water on Catalytic Rates. Journal of the American Chemical Society, 2011, 133, 5861-5872.	13.7	357
113	A rare terminal dinitrogen complex of chromium. Chemical Communications, 2011, 47, 12212.	4.1	52
114	Comment on "New Insights in the Electrocatalytic Proton Reduction and Hydrogen Oxidation by Bioinspired Catalysts: A DFT Investigation― Journal of Physical Chemistry A, 2011, 115, 4861-4865.	2.5	40
115	Comprehensive Thermochemistry of Wa€ H Bonding in the Metal Hydrides CpW(CO) <sub>2</sub> (IMes)H, [CpW(CO) <sub>2</sub> (IMes)H] <sup>•+</sup> , and [CpW(CO) <sub>2</sub> (IMes)(H) <sub>2</sub> ] <sup>+</sup> . Influence of an <i>N</i> -Heterocyclic Carbene Ligand on Metal Hydride Bond Energies. Journal of the American Chemical Society, 2011, 133,	13.7	37
116	Comproportionation of Cationic and Anionic Tungsten Complexes Having an <i>N</i> -Heterocyclic Carbene Ligand To Give the Isolable 17-Electron Tungsten Radical CpW(CO) <sub>2</sub> (IMes) <sup>•</sup> . Journal of the American Chemical Society, 2011, 133, 14593-14603.	13.7	23
117	Moving Protons with Pendant Amines: Proton Mobility in a Nickel Catalyst for Oxidation of Hydrogen. Journal of the American Chemical Society, 2011, 133, 14301-14312.	13.7	151
118	Experimental and Digital Simulation Studies of the Electrochemical Oxidation of the Metal Anion [CpW(CO) <sub>2</sub> (IMes)] <sup>â~`</sup> and the 17-Electron Metal Radical CpW(CO) <sub>2</sub> (IMes) <sup>•</sup> . Kinetics and Thermodynamics of Capture and Release of MeCN by a Metal Radical and a Metal Cation. Organometallics, 2011, 30, 4555-4563.	2.3	9
119	Comprehensive Thermodynamics of Nickel Hydride Bis(Diphosphine) Complexes: A Predictive Model through Computations. Organometallics, 2011, 30, 6108-6118.	2.3	76
120	[Ni(P <sup>Ph</sup> <sub>2</sub> N <sup>Bn</sup> <sub>2</sub> ) <sub>2</sub> (CH <sub>3</sub> CN)] <sup>2 as an Electrocatalyst for H<sub>2</sub> Production: Dependence on Acid Strength and Isomer Distribution. ACS Catalysis, 2011, 1, 777-785.</sup>	+ 11.2	104
121	Studies of a Series of [Ni(P <sup>R</sup> <sub>2</sub> N <sup>Ph</sup> <sub>2</sub> ) <sub>2</sub> (CH <sub>3</sub> CN)] <sup>2+ Complexes as Electrocatalysts for H<sub>2</sub> Production: Substituent Variation at the Phosphorus Atom of the P<sub>2</sub>N<sub>2</sub> Ligand. Inorganic Chemistry, 2011, 50,</sup>	 4.0	141
122	A Synthetic Nickel Electrocatalyst with a Turnover Frequency Above 100,000 s <sup>â^1</sup> for H <sub>2</sub> Production. Science, 2011, 333, 863-866.	12.6	1,070
123	Molecular Electrocatalysts for the Oxidation of Hydrogen and the Production of Hydrogen – The Role of Pendant Amines as Proton Relays. European Journal of Inorganic Chemistry, 2011, 2011, 1017-1027.	2.0	204
124	A Mercurial Route to a Cobalt Dihydrogen Complex. Angewandte Chemie - International Edition, 2011, 50, 4050-4052.	13.8	6
125	Fast and efficient molecular electrocatalysts for H <sub>2</sub> production: Using hydrogenase enzymes as guides. MRS Bulletin, 2011, 36, 39-47.	3.5	67
126	Reduction of oxygen catalyzed by nickel diphosphine complexes with positioned pendant amines. Dalton Transactions, 2010, 39, 3001.	3.3	82

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127	Structural and computational studies of Cp(CO)2(PCy3)MoFBF3, a complex with a bound ligand. Inorganica Chimica Acta, 2010, 363, 581-585.	2.4	5
128	Catalytic Ionic Hydrogenation of Ketones by {[Cp*Ru(CO)2]2(μ-H)}+. Organometallics, 2010, 29, 1045-1048.	2.3	26
129	Synthesis, Structures, and Reactions of Manganese Complexes Containing Diphosphine Ligands with Pendant Amines. Organometallics, 2010, 29, 4532-4540.	2.3	33
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