

# R Morris Bullock

## List of Publications by Year in descending order

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207  
papers

14,324  
citations

15466

65  
h-index

23472

111  
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239  
docs citations

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times ranked

9494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational Investigations of the Reactivity of Metalloporphyrins for Ammonia Oxidation. <i>Topics in Catalysis</i> , 2022, 65, 341-353.	1.3	4
2	Controlling Reaction Routes in Noble-Metal-Catalyzed Conversion of Aryl Ethers. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	3
3	Molecular Catalysts with Diphosphine Ligands Containing Pendant Amines. <i>Chemical Reviews</i> , 2022, 122, 12427-12474.	23.0	48
4	Weakening the N-H Bonds of NH <sub>3</sub> Ligands: Triple Hydrogen-Atom Abstraction to Form a Chromium(V) Nitride. <i>Inorganic Chemistry</i> , 2022, 61, 11165-11172.	1.9	6
5	Splitting of multiple hydrogen molecules by bioinspired diniobium metal complexes: a DFT study. <i>Dalton Transactions</i> , 2021, 50, 840-849.	1.6	5
6	Accelerating the insertion reactions of (NHC)Cu-H via remote ligand functionalization. <i>Chemical Science</i> , 2021, 12, 11495-11505.	3.7	16
7	Influence of Surface and Structural Variations in Donor-Acceptor Donor Sensitizers on Photoelectrocatalytic Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 47499-47510.	4.0	3
8	The Critical Role of Reductive Steps in the Nickel-Catalyzed Hydrogenolysis and Hydrolysis of Aryl Ether C-O Bonds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1445-1449.	7.2	40
9	The Critical Role of Reductive Steps in the Nickel-Catalyzed Hydrogenolysis and Hydrolysis of Aryl Ether C-O Bonds. <i>Angewandte Chemie</i> , 2020, 132, 1461-1465.	1.6	6
10	Using nature's blueprint to expand catalysis with Earth-abundant metals. <i>Science</i> , 2020, 369, .	6.0	306
11	Controlling C-H Bond Cleavage in Nickel Bis(diphosphine) Complexes: Reactivity Scope, Mechanism, and Computations. <i>Organometallics</i> , 2020, 39, 3306-3314.	1.1	5
12	Oxidation of Ammonia with Molecular Complexes. <i>Journal of the American Chemical Society</i> , 2020, 142, 17845-17858.	6.6	70
13	Mechanistic Studies on the Insertion of Carbonyl Substrates into Cu-H: Different Rate-Limiting Steps as a Function of Electrophilicity. <i>Angewandte Chemie</i> , 2020, 132, 8723-8731.	1.6	5
14	Diversion of Catalytic C-N Bond Formation to Catalytic Oxidation of NH <sub>3</sub> through Modification of the Hydrogen Atom Abstractor. <i>Journal of the American Chemical Society</i> , 2020, 142, 3361-3365.	6.6	46
15	Mechanistic Studies on the Insertion of Carbonyl Substrates into Cu-H: Different Rate-Limiting Steps as a Function of Electrophilicity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8645-8653.	7.2	16
16	Frontispiece: Catalytic Ammonia Oxidation to Dinitrogen by Hydrogen Atom Abstraction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, .	7.2	0
17	Frontispiz: Catalytic Ammonia Oxidation to Dinitrogen by Hydrogen Atom Abstraction. <i>Angewandte Chemie</i> , 2019, 131, .	1.6	1
18	Anion control of tautomeric equilibria: Fe-H vs. N-H influenced by NH <sub>4</sub> <sup>+</sup> F hydrogen bonding. <i>Chemical Science</i> , 2019, 10, 1410-1418.	3.7	14

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19	H <sub>2</sub> Binding, Splitting, and Net Hydrogen Atom Transfer at a Paramagnetic Iron Complex. <i>Journal of the American Chemical Society</i> , 2019, 141, 1871-1876.	6.6	25
20	A Silicon-Based Heterojunction Integrated with a Molecular Excited State in a Water-Splitting Tandem Cell. <i>Journal of the American Chemical Society</i> , 2019, 141, 10390-10398.	6.6	34
21	Catalytic Ammonia Oxidation to Dinitrogen by Hydrogen Atom Abstraction. <i>Angewandte Chemie</i> , 2019, 131, 11744-11750.	1.6	9
22	Catalytic Ammonia Oxidation to Dinitrogen by Hydrogen Atom Abstraction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11618-11624.	7.2	52
23	Evaluation of attractive interactions in the second coordination sphere of iron complexes containing pendant amines. <i>Dalton Transactions</i> , 2019, 48, 4867-4878.	1.6	12
24	Operando XAFS Studies on Rh(CAAC)-Catalyzed Arene Hydrogenation. <i>ACS Catalysis</i> , 2019, 9, 4106-4114.	5.5	46
25	Design and reactivity of pentapyridyl metal complexes for ammonia oxidation. <i>Chemical Communications</i> , 2019, 55, 5083-5086.	2.2	27
26	Triple hydrogen atom abstraction from Mn <sup>II</sup> -NH <sub>3</sub> complexes results in cyclophosphazanium cations. <i>Chemical Communications</i> , 2019, 55, 14058-14061.	2.2	17
27	Outer Coordination Sphere Proton Relay Base and Proximity Effects on Hydrogen Oxidation with Iron Electrocatalysts. <i>Organometallics</i> , 2019, 38, 1391-1396.	1.1	7
28	Reversing the Tradeoff between Rate and Overpotential in Molecular Electrocatalysts for H <sub>2</sub> Production. <i>ACS Catalysis</i> , 2018, 8, 3286-3296.	5.5	79
29	Catalytic Silylation of N <sub>2</sub> and Synthesis of NH <sub>3</sub> and N <sub>2</sub> H <sub>4</sub> by Net Hydrogen Atom Transfer Reactions Using a Chromium P <sub>4</sub> Macrocyclic. <i>Journal of the American Chemical Society</i> , 2018, 140, 2528-2536.	6.6	78
30	Beyond fossil fuel-driven nitrogen transformations. <i>Science</i> , 2018, 360, .	6.0	1,379
31	Rh(CAAC)-Catalyzed Arene Hydrogenation: Evidence for Nanocatalysis and Sterically Controlled Site-Selective Hydrogenation. <i>ACS Catalysis</i> , 2018, 8, 8441-8449.	5.5	94
32	H <sub>2</sub> Oxidation Electrocatalysis Enabled by Metal-to-Metal Hydrogen Atom Transfer: A Homolytic Approach to a Heterolytic Reaction. <i>Angewandte Chemie</i> , 2018, 130, 13711-13715.	1.6	0
33	H <sub>2</sub> Oxidation Electrocatalysis Enabled by Metal-to-Metal Hydrogen Atom Transfer: A Homolytic Approach to a Heterolytic Reaction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13523-13527.	7.2	13
34	Ammonia Oxidation by Abstraction of Three Hydrogen Atoms from a Mo <sup>II</sup> -NH <sub>3</sub> Complex. <i>Journal of the American Chemical Society</i> , 2017, 139, 2916-2919.	6.6	54
35	Surface Immobilization of Molecular Electrocatalysts for Energy Conversion. <i>Chemistry - A European Journal</i> , 2017, 23, 7626-7641.	1.7	159
36	Reaction: Earth-Abundant Metal Catalysts for Energy Conversions. <i>CheM</i> , 2017, 2, 444-446.	5.8	32

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37	Reversible Heterolytic Cleavage of the H–H Bond by Molybdenum Complexes: Controlling the Dynamics of Exchange Between Proton and Hydride. <i>Journal of the American Chemical Society</i> , 2017, 139, 7376-7387.	6.6	48
38	Impact of Weak Agostic Interactions in Nickel Electrocatalysts for Hydrogen Oxidation. <i>Organometallics</i> , 2017, 36, 2275-2284.	1.1	16
39	Catalytic N <sub>2</sub> Reduction to Silylamines and Thermodynamics of N <sub>2</sub> Binding at Square Planar Fe. <i>Journal of the American Chemical Society</i> , 2017, 139, 9291-9301.	6.6	72
40	Modulating Hole Transport in Multilayered Photocathodes with Derivatized p-Type Nickel Oxide and Molecular Assemblies for Solar-Driven Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4374-4379.	2.1	47
41	Frustration across the periodic table: heterolytic cleavage of dihydrogen by metal complexes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20170002.	1.6	33
42	Layer-by-Layer Molecular Assemblies for Dye-Sensitized Photoelectrosynthesis Cells Prepared by Atomic Layer Deposition. <i>Journal of the American Chemical Society</i> , 2017, 139, 14518-14525.	6.6	55
43	Frontispiece: Surface Immobilization of Molecular Electrocatalysts for Energy Conversion. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	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. <i>Chemical Communications</i> , 2016, 52, 9343-9346.	2.2	26
45	Virtual Special Issue on Catalysis at the U.S. Department of Energy's National Laboratories. <i>ACS Catalysis</i> , 2016, 6, 3227-3235.	5.5	2
46	Controlling Proton Delivery through Catalyst Structural Dynamics. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13509-13513.	7.2	48
47	Thermodynamic Hydricity of Transition Metal Hydrides. <i>Chemical Reviews</i> , 2016, 116, 8655-8692.	23.0	365
48	Photogeneration of hydrogen from water by a robust dye-sensitized photocathode. <i>Energy and Environmental Science</i> , 2016, 9, 3693-3697.	15.6	61
49	Controlling Proton Delivery through Catalyst Structural Dynamics. <i>Angewandte Chemie</i> , 2016, 128, 13707-13711.	1.6	12
50	Electrochemical Detection of Transient Cobalt Hydride Intermediates of Electrocatalytic Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2016, 138, 8309-8318.	6.6	89
51	Facile C–H Bond Cleavage Reactivity of Nickel Bis(diphosphine) Complexes. <i>Chemistry - A European Journal</i> , 2016, 22, 9493-9497.	1.7	3
52	Experimental and Computational Mechanistic Studies Guiding the Rational Design of Molecular Electrocatalysts for Production and Oxidation of Hydrogen. <i>Inorganic Chemistry</i> , 2016, 55, 445-460.	1.9	67
53	Toward Benchmarking in Catalysis Science: Best Practices, Challenges, and Opportunities. <i>ACS Catalysis</i> , 2016, 6, 2590-2602.	5.5	190
54	Covalent attachment of diphosphine ligands to glassy carbon electrodes via Cu-catalyzed alkyne-azide cycloaddition. Metallation with Ni( $\sigma$ -alkyne). <i>Dalton Transactions</i> , 2015, 44, 12225-12233.	1.6	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> . <i>Organometallics</i> , 2015, 34, 2747-2764.	1.1	37
56	Electrocatalytic Hydrogen Production by [Ni(7P <sup>Ph</sup> ) <sub>2</sub> N <sup>H</sup> ] <sub>2</sub> <sup>+</sup> : Removing the Distinction Between Endo- and Exo-Protonation Sites. <i>ACS Catalysis</i> , 2015, 5, 2116-2123.	5.5	20
57	Toward Molecular Catalysts by Computer. <i>Accounts of Chemical Research</i> , 2015, 48, 248-255.	7.6	65
58	Synthesis and Protonation Studies of Molybdenum(0) Bis(di-Nitrogen) Complexes Supported by Diphosphine Ligands Containing Pendant Amines. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 105-117.	0.6	15
59	Molecular Electrocatalysts for Oxidation of Hydrogen Using Earth-Abundant Metals: Shoving Protons Around with Proton Relays. <i>Accounts of Chemical Research</i> , 2015, 48, 2017-2026.	7.6	144
60	Molybdenum Hydride and Dihydride Complexes Bearing Diphosphine Ligands with a Pendant Amine: Formation of Complexes with Bound Amines. <i>Inorganic Chemistry</i> , 2015, 54, 6397-6409.	1.9	20
61	Protonation Studies of a Mono-Dinitrogen Complex of Chromium Supported by a 12-Membered Phosphorus Macrocycle Containing Pendant Amines. <i>Inorganic Chemistry</i> , 2015, 54, 4827-4839.	1.9	32
62	Water-assisted proton delivery and removal in bio-inspired hydrogen production catalysts. <i>Dalton Transactions</i> , 2015, 44, 10969-10979.	1.6	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. <i>Chemical Science</i> , 2015, 6, 2737-2745.	3.7	40
64	Manganese-Based Molecular Electrocatalysts for Oxidation of Hydrogen. <i>ACS Catalysis</i> , 2015, 5, 6838-6847.	5.5	43
65	Ab Initio-Based Kinetic Modeling for the Design of Molecular Catalysts: The Case of H <sub>2</sub> Production Electrocatalysts. <i>ACS Catalysis</i> , 2015, 5, 5436-5452.	5.5	38
66	Heterolytic cleavage of H <sub>2</sub> by bifunctional manganese( <i>i</i> ) complexes: impact of ligand dynamics, electrophilicity, and base positioning. <i>Chemical Science</i> , 2014, 5, 4729-4741.	3.7	44
67	Heterolytic Cleavage of Hydrogen by an Iron Hydrogenase Model: An Fe-H...H-N Dihydrogen Bond Characterized by Neutron Diffraction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5300-5304.	7.2	102
68	Frontispiece: Heterolytic Cleavage of Hydrogen by an Iron Hydrogenase Model: An Fe-H...H-N Dihydrogen Bond Characterized by Neutron Diffraction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, n/a-n/a.	7.2	0
69	Protonation Studies of a Tungsten Dinitrogen Complex Supported by a Diphosphine Ligand Containing a Pendant Amine. <i>Organometallics</i> , 2014, 33, 2189-2200.	1.1	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 <sup>*</sup> <sub>2</sub> (1/4-CO) <sub>2</sub> (CO) <sub>2</sub> (Cp = $\eta^5$ -C <sub>5</sub> H <sub>5</sub> ). <i>Organometallics</i> , 2014, 33, 4716-4728.	10.1	137
71	Production of hydrogen by electrocatalysis: making the H-H bond by combining protons and hydrides. <i>Chemical Communications</i> , 2014, 50, 3125-3143.	2.2	244
72	Controlling proton movement: electrocatalytic oxidation of hydrogen by a nickel( <i>ii</i> ) complex containing proton relays in the second and outer coordination spheres. <i>Dalton Transactions</i> , 2014, 43, 2744-2754.	1.6	35

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73	Electrocatalytic H <sub>2</sub> production with a turnover frequency >10 <sup>7</sup> s <sup>-1</sup> : the medium provides an increase in rate but not overpotential. <i>Energy and Environmental Science</i> , 2014, 7, 4013-4017.	15.6	49
74	Computing Free Energy Landscapes: Application to Ni-based Electrocatalysts with Pendant Amines for H <sub>2</sub> Production and Oxidation. <i>ACS Catalysis</i> , 2014, 4, 229-242.	5.5	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. <i>Energy and Environmental Science</i> , 2014, 7, 3630-3639.	15.6	20
76	Iron Complexes for the Electrocatalytic Oxidation of Hydrogen: Tuning Primary and Secondary Coordination Spheres. <i>ACS Catalysis</i> , 2014, 4, 1246-1260.	5.5	47
77	Cobalt Complexes Containing Pendant Amines in the Second Coordination Sphere as Electrocatalysts for H <sub>2</sub> Production. <i>Organometallics</i> , 2014, 33, 5820-5833.	1.1	66
78	Kinetic and Mechanistic Studies of Carbon-to-Metal Hydrogen Atom Transfer Involving Os-Centered Radicals: Evidence for Tunneling. <i>Journal of the American Chemical Society</i> , 2014, 136, 3572-3578.	6.6	25
79	Proton and Electron Additions to Iron(II) Dinitrogen Complexes Containing Pendant Amines. <i>Organometallics</i> , 2014, 33, 1333-1336.	1.1	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. <i>Inorganic Chemistry</i> , 2014, 53, 6875-6885.	1.9	49
81	Frontispiz: Heterolytic Cleavage of Hydrogen by an Iron Hydrogenase Model: An Fe-Hâ€¦â€¦H-N Dihydrogen Bond Characterized by Neutron Diffraction. <i>Angewandte Chemie</i> , 2014, 126, n/a-n/a.	1.6	0
82	Evaluation of the Role of Water in the H <sub>2</sub> Bond Formation by Ni(II)-Based Electrocatalysts. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3505-3514.	2.3	7
83	Rapid, Reversible Heterolytic Cleavage of Bound H <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2013, 135, 11736-11739.	6.6	67
84	Production of H <sub>2</sub> at fast rates using a nickel electrocatalyst in waterâ€“acetonitrile solutions. <i>Chemical Communications</i> , 2013, 49, 7767.	2.2	81
85	Dinitrogen Reduction by a Chromium(0) Complex Supported by a 16-Membered Phosphorus Macrocyclic. <i>Journal of the American Chemical Society</i> , 2013, 135, 11493-11496.	6.6	81
86	Synthesis and Electrochemical Studies of Cobalt(III) Monohydride Complexes Containing Pendant Amines. <i>Inorganic Chemistry</i> , 2013, 52, 9975-9988.	1.9	62
87	Isolation of Two Agostic Isomers of an Organometallic Cation: Different Structures and Colors. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10190-10194.	7.2	22
88	Metal-Centered 17-Electron Radicals CpM(CO) <sub>3</sub> â€“ (M = Cr, Mo, W): A Combined Negative Ion Photoelectron Spectroscopic and Theoretical Study. <i>Organometallics</i> , 2013, 32, 2084-2091.	1.1	12
89	Thermochemical and Mechanistic Studies of Electrocatalytic Hydrogen Production by Cobalt Complexes Containing Pendant Amines. <i>Inorganic Chemistry</i> , 2013, 52, 14391-14403.	1.9	82
90	Hydrogen Production Using Nickel Electrocatalysts with Pendant Amines: Ligand Effects on Rates and Overpotentials. <i>ACS Catalysis</i> , 2013, 3, 2527-2535.	5.5	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. <i>Inorganic Chemistry</i> , 2013, 52, 13674-13684.	1.9	10
92	Abundant Metals Give Precious Hydrogenation Performance. <i>Science</i> , 2013, 342, 1054-1055.	6.0	268
93	Isolation of Two Agostic Isomers of an Organometallic Cation: Different Structures and Colors. <i>Angewandte Chemie</i> , 2013, 125, 10380-10384.	1.6	5
94	An iron complex with pendent amines as a molecular electrocatalyst for oxidation of hydrogen. <i>Nature Chemistry</i> , 2013, 5, 228-233.	6.6	218
95	High Catalytic Rates for Hydrogen Production Using Nickel Electrocatalysts with Seven-Membered Cyclic Diphosphine Ligands Containing One Pendant Amine. <i>Journal of the American Chemical Society</i> , 2013, 135, 6033-6046.	6.6	137
96	Structural and Spectroscopic Characterization of 17- and 18-Electron Piano-Stool Complexes of Chromium. Thermochemical Analyses of Weak C-H Bonds. <i>Inorganic Chemistry</i> , 2013, 52, 1591-1603.	1.9	23
97	Protonation of Ferrous Dinitrogen Complexes Containing a Diphosphine Ligand with a Pendent Amine. <i>Inorganic Chemistry</i> , 2013, 52, 4026-4039.	1.9	28
98	Bio-Inspired Molecular Catalysts for Hydrogen Oxidation and Hydrogen Production. <i>ACS Symposium Series</i> , 2013, , 89-111.	0.5	7
99	Direct Determination of Equilibrium Potentials for Hydrogen Oxidation/Production by Open Circuit Potential Measurements in Acetonitrile. <i>Inorganic Chemistry</i> , 2013, 52, 3823-3835.	1.9	160
100	Two Pathways for Electrocatalytic Oxidation of Hydrogen by a Nickel Bis(diphosphine) Complex with Pendant Amines in the Second Coordination Sphere. <i>Journal of the American Chemical Society</i> , 2013, 135, 9700-9712.	6.6	119
101	Conformational Dynamics and Proton Relay Positioning in Nickel Catalysts for Hydrogen Production and Oxidation. <i>Organometallics</i> , 2013, 32, 7034-7042.	1.1	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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15634-15639.	3.3	78
103	Synthesis and reactivity of molybdenum and tungsten bis(dinitrogen) complexes supported by diphosphine chelates containing pendant amines. <i>Dalton Transactions</i> , 2012, 41, 4517.	1.6	34
104	Proton Delivery and Removal in [Ni(P <sub>2</sub> R <sub>2</sub> N <sub>2</sub> ) <sup>2+</sup> ] <sub>2</sub> Hydrogen Production and Oxidation Catalysts. <i>Journal of the American Chemical Society</i> , 2012, 134, 19409-19424.	6.6	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> . <i>Journal of the American Chemical Society</i> , 2012, 134, 6257-6272.	6.6	91
106	Stabilization of Nickel Complexes with Ni-σ-N Bonding Interactions Using Sterically Demanding Cyclic Diphosphine Ligands. <i>Organometallics</i> , 2012, 31, 144-156.	1.1	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> . <i>Organometallics</i> , 2012, 31, 1775-1789.	1.1	20
108	[Ni(P <sub>2</sub> Me <sub>2</sub> NPh <sub>2</sub> ) <sub>2</sub> ](BF <sub>4</sub> ) <sub>2</sub> as an Electrocatalyst for H <sub>2</sub> Production. <i>ACS Catalysis</i> , 2012, 2, 720-727.	5.5	95

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109	Reversible Electrocatalytic Production and Oxidation of Hydrogen at Low Overpotentials by a Functional Hydrogenase Mimic. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3152-3155.	7.2	128
110	Dinuclear Metalloradicals Featuring Unsupported Metal-Metal Bonds. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8361-8364.	7.2	15
111	The Role of Pendant Amines in the Breaking and Forming of Molecular Hydrogen Catalyzed by Nickel Complexes. <i>Chemistry - A European Journal</i> , 2012, 18, 6493-6506.	1.7	102
112	[Ni(P <sup>Ph</sup> ) <sub>2</sub> N <sup>C6H4X</sup> ] <sub>2</sub> <sup>2+</sup> Complexes as Electrocatalysts for H <sub>2</sub> Production: Effect of Substituents, Acids, and Water on Catalytic Rates. <i>Journal of the American Chemical Society</i> , 2011, 133, 5861-5872.	6.6	357
113	A rare terminal dinitrogen complex of chromium. <i>Chemical Communications</i> , 2011, 47, 12212.	2.2	52
114	Comment on "New Insights in the Electrocatalytic Proton Reduction and Hydrogen Oxidation by Bioinspired Catalysts: A DFT Investigation". <i>Journal of Physical Chemistry A</i> , 2011, 115, 4861-4865.	1.1	40
115	Comprehensive Thermochemistry of $\sigma$ -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)] <sup>+</sup> . Influence of an <i>N</i> -Heterocyclic Carbene Ligand on Metal Hydride Bond Energies. <i>Journal of the American Chemical Society</i> , 2011, 133, 14604-14612.	6.6	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> . <i>Journal of the American Chemical Society</i> , 2011, 133, 14593-14603.	6.6	23
117	Moving Protons with Pendant Amines: Proton Mobility in a Nickel Catalyst for Oxidation of Hydrogen. <i>Journal of the American Chemical Society</i> , 2011, 133, 14301-14312.	6.6	151
118	Experimental and Digital Simulation Studies of the Electrochemical Oxidation of the Metal Anion [CpW(CO) <sub>2</sub> (IMes)] <sup>-</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. <i>Organometallics</i> , 2011, 30, 4555-4563.	1.1	9
119	Comprehensive Thermodynamics of Nickel Hydride Bis(Diphosphine) Complexes: A Predictive Model through Computations. <i>Organometallics</i> , 2011, 30, 6108-6118.	1.1	76
120	[Ni(P <sup>Ph</sup> ) <sub>2</sub> N <sup>Bn</sup> ] <sub>2</sub> (CH <sub>3</sub> CN)] <sup>2+</sup> as an Electrocatalyst for H <sub>2</sub> Production: Dependence on Acid Strength and Isomer Distribution. <i>ACS Catalysis</i> , 2011, 1, 777-785.	5.5	104
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