

Monte L Helm

List of Publications by Year in descending order

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279778

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Electrolyte Solvation and Ionic Association: VIII. Reassessing Raman Spectroscopic Studies of Ion Coordination for LiTFSI. <i>Journal of the Electrochemical Society</i> , 2022, 169, 060515.	2.9	13
2	Outer Coordination Sphere Proton Relay Base and Proximity Effects on Hydrogen Oxidation with Iron Electrocatalysts. <i>Organometallics</i> , 2019, 38, 1391-1396.	2.3	7
3	Controlling Proton Delivery through Catalyst Structural Dynamics. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13509-13513.	13.8	48
4	Nickel Bis-Diphosphine Complexes: Controlling the Binding and Heterolysis of H ₂ . <i>Organometallics</i> , 2016, 35, 2965-2974.	2.3	7
5	Controlling Proton Delivery through Catalyst Structural Dynamics. <i>Angewandte Chemie</i> , 2016, 128, 13707-13711.	2.0	12
6	Investigating the role of chain and linker length on the catalytic activity of an H ₂ production catalyst containing a β -hairpin peptide. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1730-1747.	2.2	15
7	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.	4.0	67
8	Kinetic Analysis of Competitive Electrocatalytic Pathways: New Insights into Hydrogen Production with Nickel Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2016, 138, 604-616.	13.7	51
9	Electrocatalytic Hydrogen Production by [Ni(7P ^{Ph}) ₂ N ^H] ²⁺ : Removing the Distinction Between Endo- and Exo-Protonation Sites. <i>ACS Catalysis</i> , 2015, 5, 2116-2123.	11.2	20
10	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.	15.6	144
11	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.	7.4	40
12	Heterolytic cleavage of H ₂ by bifunctional manganese(<i>i</i>) complexes: impact of ligand dynamics, electrophilicity, and base positioning. <i>Chemical Science</i> , 2014, 5, 4729-4741.	7.4	44
13	Solvent and electrolyte effects on Ni(P ^R) ₂ N ^R -catalyzed electrochemical oxidation of hydrogen. <i>Chemical Communications</i> , 2014, 50, 3681-3684.	4.1	21
14	Protonation Studies of a Tungsten Dinitrogen Complex Supported by a Diphosphine Ligand Containing a Pendant Amine. <i>Organometallics</i> , 2014, 33, 2189-2200.	2.3	26
15	Production of hydrogen by electrocatalysis: making the H-H bond by combining protons and hydrides. <i>Chemical Communications</i> , 2014, 50, 3125-3143.	4.1	244
16	Determining the Overpotential for a Molecular Electrocatalyst. <i>ACS Catalysis</i> , 2014, 4, 630-633.	11.2	285
17	Electrodeposition from Acidic Solutions of Nickel Bis(benzenedithiolate) Produces a Hydrogen-Evolving Ni-S Film on Glassy Carbon. <i>ACS Catalysis</i> , 2014, 4, 90-98.	11.2	59
18	Soft support for energy conversion. <i>Nature Chemistry</i> , 2014, 6, 949-950.	13.6	26

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19	Electrocatalytic H ₂ production with a turnover frequency >10 ⁷ s ⁻¹ : the medium provides an increase in rate but not overpotential. Energy and Environmental Science, 2014, 7, 4013-4017.	30.8	49
20	Comparison of [Ni(P ² Ph ₂ N ² Ph ₂) ₂ (CH ₃ CN)] ²⁺ and [Pd(P ² Ph ₂ N ² Ph ₂) ₂] ²⁺ as Electrocatalysts for H ₂ Production. Organometallics, 2014, 33, 4617-4620.	2.3	13
21	Iron Complexes for the Electrocatalytic Oxidation of Hydrogen: Tuning Primary and Secondary Coordination Spheres. ACS Catalysis, 2014, 4, 1246-1260.	11.2	47
22	Catalytic Oxidation of Alcohol via Nickel Phosphine Complexes with Pendant Amines. ACS Catalysis, 2014, 4, 2951-2958.	11.2	60
23	A Nill-Bis(diphosphine)-Hydride Complex Containing Proton Relays - Structural Characterization and Electrocatalytic Studies. European Journal of Inorganic Chemistry, 2014, 2014, 4611-4618.	2.0	9
24	Production of H ₂ at fast rates using a nickel electrocatalyst in water/acetonitrile solutions. Chemical Communications, 2013, 49, 7767.	4.1	81
25	Hydrogen Production Using Nickel Electrocatalysts with Pendant Amines: Ligand Effects on Rates and Overpotentials. ACS Catalysis, 2013, 3, 2527-2535.	11.2	70
26	A modular, energy-based approach to the development of nickel containing molecular electrocatalysts for hydrogen production and oxidation. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 1123-1139.	1.0	102
27	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
28	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
29	Stabilization of Nickel Complexes with NiO ₂ -N Bonding Interactions Using Sterically Demanding Cyclic Diphosphine Ligands. Organometallics, 2012, 31, 144-156.	2.3	66
30	Studies of a Series of [Ni(P ² R ₂ N ² Ph ₂) ₂ (CH ₃ CN)] ²⁺ Complexes as Electrocatalysts for H ₂ Production: Substituent Variation at the Phosphorus Atom of the P ₂ N ₂ Ligand. Inorganic Chemistry, 2011, 50, 10908-10918.	4.0	141
31	Electrocatalytic Oxidation of Formate by [Ni(P ² R ₂ N ² R ²) ₂ (CH ₃ CN)] ²⁺ Complexes. Journal of the American Chemical Society, 2011, 133, 12767-12779.	11.8	107
32	A Synthetic Nickel Electrocatalyst with a Turnover Frequency Above 100,000 s ⁻¹ for H ₂ Production. Science, 2011, 333, 863-866.	12.6	1,070
33	Synthesis, characterization and crystal structure of (cis-P,P ² -diphenyl-1,4-diphospha-cyclohexane)molybdenum(0)tetracarbonyl. Inorganic Chemistry Communication, 2010, 13, 534-536.	3.9	2
34	Synthesis of 1,4,7-Triphenyl-1,4,7-triphosphacyclononane: The First Metal-Free Synthesis of a [9]-aneP ₃ R ₃ Ring. Inorganic Chemistry, 2010, 49, 4732-4734.	4.0	17
35	Group 9 half-sandwich complexes containing the unique P,P ² -diphenyl-1,4-diphospha-cyclohexane ligand: Synthesis, X-ray structure analyses and spectroscopic studies. Journal of Organometallic Chemistry, 2009, 694, 3506-3510.	1.8	2
36	Lithium bis(2-phenylphosphidoethyl)phenylphosphine: A reactive phosphorus intermediate. Heteroatom Chemistry, 2007, 18, 675-678.	0.7	12

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37	Bis(cis-1,4-diphenyl-1,4-diphosphacyclohexane- $\hat{\text{P}}_2\text{P}$)platinum(II) bis(tetrafluoroborate). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, m1983-m1983.	0.2	3
38	Group 10 metal complexes of a cyclic diphosphine: The crystal structures of bis(cis-P, $\hat{\text{P}}$ -diphenyl-1,4-diphospha-cyclohexane)M(II) chloride, M=palladium, platinum. <i>Inorganic Chemistry Communication</i> , 2006, 9, 946-948.	3.9	10
39	Group 6 metal carbonyl complexes of a bulky phosphine: The crystal structures of tris(trimethylsilyl)phosphine-M(0)pentacarbonyl, M = chromium, molybdenum, and tungsten. <i>Journal of Chemical Crystallography</i> , 2006, 36, 271-275.	1.1	11
40	Synthesis and Spectroscopic Studies of Group 6 Metal Carbonyl Complexes With a Novel Cyclotriposphazane Ligand. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2005, 35, 227-231.	0.6	0
41	Synthesis, spectroscopic characterization and x-ray studies of new complexes of organotin(IV) chlorides with N-alkylated 2-amino-1-cyclopentene-1-carbodithioic acids. <i>Journal of Coordination Chemistry</i> , 2003, 56, 1179-1189.	2.2	17
42	The first 2,3-dihydro-1H-[1,2,4] triphosphole. <i>Journal of Organometallic Chemistry</i> , 2002, 650, 198-201.	1.8	5
43	Synthetic, structural and theoretical studies on the new 2,3-dihydro-1,2,4-thia-, seleno- and telluro-diphospholes, P ₂ EC ₂ But ₂ (H)Me, (E=S, Se, Te) and their [M(CO) ₅] complexes (M=Cr, Mo, W). <i>Journal of Organometallic Chemistry</i> , 2002, 659, 84-91.	1.8	9
44	Synthesis, Characterization, and Solution Properties of Skeletally Stabilized Triphosphazanes. <i>Inorganic Chemistry</i> , 1999, 38, 3167-3172.	4.0	12
45	New Cleft-Containing Heterosubstituted Cyclophosphazanes. <i>Inorganic Chemistry</i> , 1998, 37, 4478-4479.	4.0	8