# Eric S Wiedner

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5842784/publications.pdf

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|---|---|---|---|
| 47 papers | 2,012 citations | 236612 25 h-index | 264894 42 g-index |
| 49 all docs | 49 docs citations | 49 times ranked | 1946 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Role of High-Spin Species and Pendant Amines in Electrocatalytic Alcohol Oxidation by a Nickel Phosphine Complex. ACS Catalysis, 2022, 12, 2729-2740. | 5.5 | 6 |
| 2 | Molecular Catalysts with Diphosphine Ligands Containing Pendant Amines. Chemical Reviews, 2022, 122, 12427-12474. | 23.0 | 48 |
| 3 | Thermodynamic Trends for Reduction of CO by Molecular Complexes. Organometallics, 2021, 40, 2039-2050. | 1.1 | 5 |
| 4 | Cobalt-Group 13 Complexes Catalyze CO<sub>2</sub> Hydrogenation via a Co(â˜I)/Co(I) Redox Cycle. ACS Catalysis, 2020, 10, 2459-2470. | 5.5 | 55 |
| 5 | Enhanced Hydrogenation of Carbon Dioxide to Methanol by a Ruthenium Complex with a Charged Outer-Coordination Sphere. ACS Catalysis, 2020, 10, 7419-7423. | 5.5 | 25 |
| 6 | 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. | 1.6 | 5 |
| 7 | 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. | 7.2 | 16 |
| 8 | Understanding and Design of Bidirectional and Reversible Catalysts of Multielectron, Multistep Reactions. Journal of the American Chemical Society, 2019, 141, 11269-11285. | 6.6 | 51 |
| 9 | Thermodynamic Hydricity of [FeFe]-Hydrogenases. Journal of the American Chemical Society, 2019, 141, 7212-7222. | 6.6 | 12 |
| 10 | Evaluation of attractive interactions in the second coordination sphere of iron complexes containing pendant amines. Dalton Transactions, 2019, 48, 4867-4878. | 1.6 | 12 |
| 11 | Design and reactivity of pentapyridyl metal complexes for ammonia oxidation. Chemical Communications, 2019, 55, 5083-5086. | 2.2 | 27 |
| 12 | Electrocatalytic Hydrogen Production by a Nickel Complex Containing a Tetradentate Phosphine Ligand. Organometallics, 2019, 38, 1269-1279. | 1.1 | 25 |
| 13 | Reversing the Tradeoff between Rate and Overpotential in Molecular Electrocatalysts for H<sub>2</sub>Production. ACS Catalysis, 2018, 8, 3286-3296. | 5.5 | 79 |
| 14 | Frontispiece: Making a Splash in Homogeneous CO<sub>2</sub> Hydrogenation: Elucidating the Impact of Solvent on Catalytic Mechanisms. Chemistry - A European Journal, 2018, 24, . | 1.7 | 0 |
| 15 | H 2 Oxidation Electrocatalysis Enabled by Metalâ€toâ€Metal Hydrogen Atom Transfer: A Homolytic Approach to a Heterolytic Reaction. Angewandte Chemie, 2018, 130, 13711-13715. | 1.6 | 0 |
| 16 | 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. | 7.2 | 13 |
| 17 | Making a Splash in Homogeneous CO<sub>2</sub> Hydrogenation: Elucidating the Impact of Solvent on Catalytic Mechanisms. Chemistry - A European Journal, 2018, 24, 16964-16971. | 1.7 | 25 |
| 18 | Transition Metal Complexes for Catalytic N2 Reduction and NH3 Oxidation: Strategies for Making and Breaking Nâ‰¡N and N-H Bonds. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |

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|---|---|---|---|
| 19 | Ammonia Oxidation by Abstraction of Three Hydrogen Atoms from a Moâ€“NH<sub>3</sub> Complex. Journal of the American Chemical Society, 2017, 139, 2916-2919. | 6.6 | 54 |
| 20 | Impact of Weak Agostic Interactions in Nickel Electrocatalysts for Hydrogen Oxidation. Organometallics, 2017, 36, 2275-2284. | 1.1 | 16 |
| 21 | 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. | 6.6 | 72 |
| 22 | Changing the Mechanism for CO<sub>2</sub> Hydrogenation Using Solventâ€Đependent Thermodynamics. Angewandte Chemie - International Edition, 2017, 56, 15002-15005. | 7.2 | 42 |
| 23 | Changing the Mechanism for CO 2 Hydrogenation Using Solventâ€Đependent Thermodynamics. Angewandte Chemie, 2017, 129, 15198-15201. | 1.6 | 3 |
| 24 | Hydrogenation of CO<sub>2</sub> at Room Temperature and Low Pressure with a Cobalt Tetraphosphine Catalyst. Inorganic Chemistry, 2017, 56, 8580-8589. | 1.9 | 39 |
| 25 | Understanding the Relationship Between Kinetics and Thermodynamics in CO<sub>2</sub> Hydrogenation Catalysis. ACS Catalysis, 2017, 7, 6008-6017. | 5.5 | 43 |
| 26 | Invited: Approaching Hydrogenase-like Performance with Molecular Electrocatalysts for H2 Production. ECS Meeting Abstracts, 2017, , . | 0.0 | 0 |
| 27 | 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. | 2.2 | 26 |
| 28 | Thermodynamic Hydricity of Transition Metal Hydrides. Chemical Reviews, 2016, 116, 8655-8692. | 23.0 | 365 |
| 29 | Electrochemical Detection of Transient Cobalt Hydride Intermediates of Electrocatalytic Hydrogen Production. Journal of the American Chemical Society, 2016, 138, 8309-8318. | 6.6 | 89 |
| 30 | Experimental and Computational Mechanistic Studies Guiding the Rational Design of Molecular Electrocatalysts for Production and Oxidation of Hydrogen. Inorganic Chemistry, 2016, 55, 445-460. | 1.9 | 67 |
| 31 | Kinetic Analysis of Competitive Electrocatalytic Pathways: New Insights into Hydrogen Production with Nickel Electrocatalysts. Journal of the American Chemical Society, 2016, 138, 604-616. | 6.6 | 51 |
| 32 | Combined Spectroscopic and Electrochemical Detection of a Ni<sup>I</sup>â‹…â‹…â‹…Hï£¿N Bonding Interaction with Relevance to Electrocatalytic H<sub>2</sub> Production. Chemistry - A European Journal, 2015, 21, 10338-10347. | 1.7 | 14 |
| 33 | Frontispiece: Combined Spectroscopic and Electrochemical Detection of a Niâ‹…â‹…â‹…Hï£¿N Bonding Interaction with Relevance to Electrocatalytic H2Production. Chemistry - A European Journal, 2015, 21, n/a-n/a. | 1.7 | 0 |
| 34 | Predicting the reactivity of hydride donors in water: thermodynamic constants for hydrogen. Dalton Transactions, 2015, 44, 5933-5938. | 1.6 | 64 |
| 35 | Nickel phosphine catalysts with pendant amines for electrocatalytic oxidation of alcohols. Chemical Communications, 2015, 51, 6172-6174. | 2.2 | 43 |
| 36 | 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. | 5.5 | 38 |

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|---|---|---|---|
| 37 | Effects of Phosphineâ€“Carbene Substitutions on the Electrochemical and Thermodynamic Properties of Nickel Complexes. Organometallics, 2014, 33, 2287-2294. | 1.1 | 15 |
| 38 | Comparison of [Ni(P<sup>Ph</sup><sub>2</sub>N<sup>Ph</sup><sub>2</sub>)<sub>2</sub>(CH<sub>3</sub>CN)]<sup>2+</sup> and [Pd(P<sup>Ph</sup><sub>2</sub>N<sup>Ph</sup><sub>2</sub>)<sub>2</sub>]<sup>2+</sup> as Electrocatalysts for H<sub>2</sub> Production. Organometallics, 2014, 33, 4617-4620. | 1.1 | 13 |
| 39 | Thermochemical Insight into the Reduction of CO to CH3OH with [Re(CO)]+ and [Mn(CO)]+ Complexes. Journal of the American Chemical Society, 2014, 136, 8661-8668. | 6.6 | 13 |
| 40 | Cobalt Complexes Containing Pendant Amines in the Second Coordination Sphere as Electrocatalysts for H<sub>2</sub> Production. Organometallics, 2014, 33, 5820-5833. | 1.1 | 66 |
| 41 | Synthesis and Electrochemical Studies of Cobalt(III) Monohydride Complexes Containing Pendant Amines. Inorganic Chemistry, 2013, 52, 9975-9988. | 1.9 | 62 |
| 42 | Thermochemical and Mechanistic Studies of Electrocatalytic Hydrogen Production by Cobalt Complexes Containing Pendant Amines. Inorganic Chemistry, 2013, 52, 14391-14403. | 1.9 | 82 |
| 43 | Stabilization of Nickel Complexes with Ni0Â·Â·Â·Hâ€“N Bonding Interactions Using Sterically Demanding Cyclic Diphosphine Ligands. Organometallics, 2012, 31, 144-156. | 1.1 | 66 |
| 44 | Synthesis of Molybdenum Nitrido Complexes for Triple-Bond Metathesis of Alkynes and Nitriles. Inorganic Chemistry, 2011, 50, 5936-5945. | 1.9 | 31 |
| 45 | Comparison of Cobalt and Nickel Complexes with Sterically Demanding Cyclic Diphosphine Ligands: Electrocatalytic H<sub>2</sub>Production by [Co(P<sup>t</sup><sup>Bu</sup><sub>2</sub>N<sup>Ph</sup><sub>2</sub>)(CH<sub>3</sub>CN)<sub>3</sub>](BF<sub> Organometallics, 2010, 29, 5390-5401. | 1.1 | 105 |
| 46 | Synthetic, Mechanistic, and Computational Investigations of Nitrile-Alkyne Cross-Metathesis. Journal of the American Chemical Society, 2008, 130, 8984-8999. | 6.6 | 74 |
| 47 | Catalytic Nitrile-Alkyne Cross-Metathesis. Journal of the American Chemical Society, 2007, 129, 3800-3801. | 6.6 | 55 |