

Nilay Hazari

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103
papers

5,985
citations

41
h-index

76
g-index

113
ext. papers

6,828
ext. citations

9.9
avg, IF

6.43
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 103 | Secondary coordination sphere interactions facilitate the insertion step in an iridium(III) CO ₂ reduction catalyst. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9274-7 | 16.4 | 349 |
| 102 | Polymer bulk heterojunction solar cells employing Förster resonance energy transfer. <i>Nature Photonics</i> , 2013 , 7, 479-485 | 33.9 | 346 |
| 101 | Lewis acid-assisted formic acid dehydrogenation using a pincer-supported iron catalyst. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10234-7 | 16.4 | 317 |
| 100 | Well-Defined Iron Catalysts for the Acceptorless Reversible Dehydrogenation-Hydrogenation of Alcohols and Ketones. <i>ACS Catalysis</i> , 2014 , 4, 3994-4003 | 13.1 | 291 |
| 99 | Iridium-catalyzed hydrogenation of N-heterocyclic compounds under mild conditions by an outer-sphere pathway. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7547-62 | 16.4 | 257 |
| 98 | Well-defined nickel and palladium precatalysts for cross-coupling. <i>Nature Reviews Chemistry</i> , 2017 , 1, | 34.6 | 252 |
| 97 | Iron catalyzed CO hydrogenation to formate enhanced by Lewis acid co-catalysts. <i>Chemical Science</i> , 2015 , 6, 4291-4299 | 9.4 | 238 |
| 96 | Homogeneous iron complexes for the conversion of dinitrogen into ammonia and hydrazine. <i>Chemical Society Reviews</i> , 2010 , 39, 4044-56 | 58.5 | 203 |
| 95 | Reversible Hydrogenation of Carbon Dioxide to Formic Acid and Methanol: Lewis Acid Enhancement of Base Metal Catalysts. <i>Accounts of Chemical Research</i> , 2017 , 50, 1049-1058 | 24.3 | 161 |
| 94 | Opportunities and Challenges for Catalysis in Carbon Dioxide Utilization. <i>ACS Catalysis</i> , 2019 , 9, 7937-7956 | 16.1 | 153 |
| 93 | Base-Free Methanol Dehydrogenation Using a Pincer-Supported Iron Compound and Lewis Acid Co-catalyst. <i>ACS Catalysis</i> , 2015 , 5, 2404-2415 | 13.1 | 151 |
| 92 | Cross-Coupling and Related Reactions: Connecting Past Success to the Development of New Reactions for the Future. <i>Organometallics</i> , 2019 , 38, 3-35 | 3.8 | 143 |
| 91 | Palladium(I)-bridging allyl dimers for the catalytic functionalization of CO ₂ . <i>Journal of the American Chemical Society</i> , 2011 , 133, 3280-3 | 16.4 | 123 |
| 90 | Experimental and Computational Studies of the Reaction of Carbon Dioxide with Pincer-Supported Nickel and Palladium Hydrides. <i>Organometallics</i> , 2012 , 31, 8225-8236 | 3.8 | 118 |
| 89 | An Iridium(IV) Species, [Cp*Ir(NHC)Cl] ⁺ , Related to a Water-Oxidation Catalyst. <i>Organometallics</i> , 2011 , 30, 965-973 | 3.8 | 116 |
| 88 | Mechanistic Study of an Improved Ni Precatalyst for Suzuki-Miyaura Reactions of Aryl Sulfamates: Understanding the Role of Ni(I) Species. <i>Journal of the American Chemical Society</i> , 2017 , 139, 922-936 | 16.4 | 102 |
| 87 | Insight into the efficiency of cinnamyl-supported precatalysts for the Suzuki-Miyaura reaction: observation of Pd(I) dimers with bridging allyl ligands during catalysis. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7300-16 | 16.4 | 102 |

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| 86 | Exploring the reactions of CO ₂ with PCP supported nickel complexes. <i>Chemical Communications</i> , 2011 , 47, 1824-6 | 5.8 | 102 |
| 85 | Design of a Versatile and Improved Precatalyst Scaffold for Palladium-Catalyzed Cross-Coupling: (β-1-tBu-indenyl) ₂ (ECl) ₂ Pd ₂ . <i>ACS Catalysis</i> , 2015 , 5, 3680-3688 | 13.1 | 101 |
| 84 | A mechanistic study of allene carboxylation with CO ₂ resulting in the development of a Pd(II) pincer complex for the catalytic hydroboration of CO ₂ . <i>Chemical Science</i> , 2014 , 5, 3859 | 9.4 | 93 |
| 83 | Synthesis and structure of six-coordinate iron borohydride complexes supported by PNP ligands. <i>Inorganic Chemistry</i> , 2014 , 53, 2133-43 | 5.1 | 86 |
| 82 | Palladium catalyzed carboxylation of allylstannanes and boranes using CO ₂ . <i>Chemical Communications</i> , 2011 , 47, 1069-71 | 5.8 | 79 |
| 81 | Understanding Precatalyst Activation in Cross-Coupling Reactions: Alcohol Facilitated Reduction from Pd(II) to Pd(0) in Precatalysts of the Type (β-allyl)Pd(L)(Cl) and (β-indenyl)Pd(L)(Cl). <i>ACS Catalysis</i> , 2015 , 5, 5596-5606 | 13.1 | 76 |
| 80 | Selective Iron-Catalyzed Deaminative Hydrogenation of Amides. <i>Organometallics</i> , 2017 , 36, 409-416 | 3.8 | 72 |
| 79 | Comparison of dppf-Supported Nickel Precatalysts for the Suzuki-Miyaura Reaction: The Observation and Activity of Nickel(I). <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13352-6 | 16.4 | 70 |
| 78 | Selective Iron-Catalyzed N-Formylation of Amines using Dihydrogen and Carbon Dioxide. <i>ACS Catalysis</i> , 2018 , 8, 1338-1345 | 13.1 | 69 |
| 77 | Rapidly Activating Pd-Precatalyst for Suzuki-Miyaura and Buchwald-Hartwig Couplings of Aryl Esters. <i>Journal of Organic Chemistry</i> , 2018 , 83, 469-477 | 4.2 | 68 |
| 76 | Selective conversion of glycerol to lactic acid with iron pincer precatalysts. <i>Chemical Communications</i> , 2015 , 51, 16201-4 | 5.8 | 67 |
| 75 | Synthesis of PCP-supported nickel complexes and their reactivity with carbon dioxide. <i>Chemistry - A European Journal</i> , 2012 , 18, 6915-27 | 4.8 | 63 |
| 74 | Lewis Acid Induced β-Elimination from a Nickelalactone: Efforts toward Acrylate Production from CO ₂ and Ethylene. <i>Organometallics</i> , 2013 , 32, 2152-2159 | 3.8 | 59 |
| 73 | The Reaction of Carbon Dioxide with Palladium Allyl Bonds. <i>Organometallics</i> , 2010 , 29, 6369-6376 | 3.8 | 59 |
| 72 | Mechanistic Studies of the Insertion of CO ₂ into Palladium(I) Bridging Allyl Dimers. <i>Organometallics</i> , 2012 , 31, 470-485 | 3.8 | 58 |
| 71 | Nickel(I) monomers and dimers with cyclopentadienyl and indenyl ligands. <i>Chemistry - A European Journal</i> , 2014 , 20, 5327-37 | 4.8 | 57 |
| 70 | Development of an Improved System for the Carboxylation of Aryl Halides through Mechanistic Studies. <i>ACS Catalysis</i> , 2019 , 9, 3228-3241 | 13.1 | 52 |
| 69 | Enhanced CO ₂ electroreduction efficiency through secondary coordination effects on a pincer iridium catalyst. <i>Chemical Communications</i> , 2015 , 51, 5947-50 | 5.8 | 52 |

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| 68 | Carbon Dioxide Insertion into Group 9 and 10 Metal-Element Bonds. <i>Inorganic Chemistry</i> , 2017 , 56, 13655-13678 | 5.1 | 50 |
| 67 | Effect of sodium cation on metallacycle hydride elimination in CO ₂ -ethylene coupling to acrylates. <i>Chemistry - A European Journal</i> , 2014 , 20, 3205-11 | 4.8 | 47 |
| 66 | Iron-Catalyzed Amide Formation from the Dehydrogenative Coupling of Alcohols and Secondary Amines. <i>Organometallics</i> , 2017 , 36, 2020-2025 | 3.8 | 45 |
| 65 | Synthesis and Reactivity of Paramagnetic Nickel Polypyridyl Complexes Relevant to C(sp ²)-C(sp ²) Coupling Reactions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6094-6098 | 16.4 | 44 |
| 64 | Controlling Selectivity in the Hydroboration of Carbon Dioxide to the Formic Acid, Formaldehyde, and Methanol Oxidation Levels. <i>ACS Catalysis</i> , 2019 , 9, 301-314 | 13.1 | 44 |
| 63 | Nickel(II) Aryl Species: Synthesis, Properties, and Catalytic Activity. <i>ACS Catalysis</i> , 2018 , 8, 2526-2533 | 13.1 | 42 |
| 62 | Acceleration of CO insertion into metal hydrides: ligand, Lewis acid, and solvent effects on reaction kinetics. <i>Chemical Science</i> , 2018 , 9, 6629-6638 | 9.4 | 39 |
| 61 | Quaternary Organic Solar Cells Enhanced by Cocrystalline Squaraines with Power Conversion Efficiencies >10%. <i>Advanced Energy Materials</i> , 2016 , 6, 1600660 | 21.8 | 39 |
| 60 | The Key Role of the Hemiaminal Intermediate in the Iron-Catalyzed Deaminative Hydrogenation of Amides. <i>ACS Catalysis</i> , 2018 , 8, 8751-8762 | 13.1 | 38 |
| 59 | Nitrogen fixation revisited on iron(0) dinitrogen phosphine complexes. <i>Inorganic Chemistry</i> , 2015 , 54, 4768-76 | 5.1 | 34 |
| 58 | Sequential Hydrogenation of CO ₂ to Methanol Using a Pincer Iron Catalyst. <i>Organometallics</i> , 2019 , 38, 3084-3091 | 3.8 | 33 |
| 57 | Effect of 2-Substituents on Allyl-Supported Precatalysts for the Suzuki-Miyaura Reaction: Relating Catalytic Efficiency to the Stability of Palladium(II) Bridging Allyl Dimers. <i>Organometallics</i> , 2015 , 34, 381-394 | 3.8 | 33 |
| 56 | Synthesis, Properties, and Reactivity with Carbon Dioxide of (allyl) ₂ Ni(L) Complexes. <i>Organometallics</i> , 2011 , 30, 3142-3150 | 3.8 | 33 |
| 55 | An unusual example of hypervalent silicon: a five-coordinate silyl group bridging two palladium or nickel centers through a nonsymmetrical four-center two-electron bond. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1103-8 | 16.4 | 32 |
| 54 | Catalytic Formic Acid Dehydrogenation and CO ₂ Hydrogenation Using Iron Pincer Complexes with Isonitrile Ligands. <i>Organometallics</i> , 2018 , 37, 3846-3853 | 3.8 | 32 |
| 53 | A Computational Investigation of the Insertion of Carbon Dioxide into Four- and Five-Coordinate Iridium Hydrides. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 4032-4041 | 2.3 | 31 |
| 52 | Ni(II)-Alkyl Complexes Bearing Phenanthroline Ligands: Experimental Evidence for CO Insertion at Ni(II) Centers. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10936-10941 | 16.4 | 30 |
| 51 | Dinitrogen-Facilitated Reversible Formation of a Si-H Bond in a Pincer-Supported Ni Complex. <i>Organometallics</i> , 2016 , 35, 3154-3162 | 3.8 | 30 |

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| 50 | Selective homogeneous and heterogeneous catalytic conversion of methanol/dimethyl ether to triptane. <i>Accounts of Chemical Research</i> , 2012 , 45, 653-62 | 24.3 | 30 |
| 49 | Synthesis and reactivity of a masked PSiP pincer supported nickel hydride. <i>Polyhedron</i> , 2014 , 84, 37-43 | 2.7 | 29 |
| 48 | Flexible binding of PNP pincer ligands to monomeric iron complexes. <i>Inorganic Chemistry</i> , 2014 , 53, 6066-72 | 5.7 | 28 |
| 47 | Pd(I)-Bridging Allyl Dimers: A New System for the Catalytic Functionalization of Carbon Dioxide. <i>Synlett</i> , 2011 , 2011, 1793-1797 | 2.2 | 28 |
| 46 | Understanding the Individual and Combined Effects of Solvent and Lewis Acid on CO Insertion into a Metal Hydride. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10520-10529 | 16.4 | 27 |
| 45 | The Role of Proton Shuttles in the Reversible Activation of Hydrogen via Metal-Ligand Cooperation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17350-17360 | 16.4 | 26 |
| 44 | Synthesis, Properties, and Reactivity of Palladium and Nickel NHC Complexes Supported by Combinations of Allyl, Cyclopentadienyl, and Indenyl Ligands. <i>Organometallics</i> , 2013 , 32, 4025-4037 | 3.8 | 26 |
| 43 | Dinuclear Pd(I) complexes with bridging allyl and related ligands. <i>Chemical Society Reviews</i> , 2016 , 45, 2871-99 | 58.5 | 26 |
| 42 | Iron-catalyzed urea synthesis: dehydrogenative coupling of methanol and amines. <i>Chemical Science</i> , 2018 , 9, 4003-4008 | 9.4 | 25 |
| 41 | Thermodynamic and kinetic hydricity of transition metal hydrides. <i>Chemical Society Reviews</i> , 2020 , 49, 7929-7948 | 58.5 | 25 |
| 40 | Synthesis and Catalytic Activity of PNP-Supported Iron Complexes with Ancillary Isonitrile Ligands. <i>Organometallics</i> , 2017 , 36, 3995-4004 | 3.8 | 23 |
| 39 | Understanding the Solution and Solid-State Structures of Pd and Pt PSiP Pincer-Supported Hydrides. <i>Inorganic Chemistry</i> , 2015 , 54, 11411-22 | 5.1 | 23 |
| 38 | Pd-Catalyzed Suzuki-Miyaura and Hiyama-Denmark Couplings of Aryl Sulfamates. <i>Organic Letters</i> , 2016 , 18, 5784-5787 | 6.2 | 21 |
| 37 | Synthesis and Properties of NHC-Supported Palladium(I) Dimers with Bridging Allyl, Cyclopentadienyl, and Indenyl Ligands. <i>Organometallics</i> , 2013 , 32, 5114-5127 | 3.8 | 18 |
| 36 | A Widely Applicable Dual Catalytic System for Cross-Electrophile Coupling Enabled by Mechanistic Studies. <i>ACS Catalysis</i> , 2020 , 10, 12642-12656 | 13.1 | 18 |
| 35 | Mild, reversible reaction of iridium(III) amido complexes with carbon dioxide. <i>Inorganic Chemistry</i> , 2012 , 51, 9683-93 | 5.1 | 17 |
| 34 | Electron-Rich CpIr(biphenyl-2,2'-diyl) Complexes with π -Accepting Carbon Donor Ligands. <i>Organometallics</i> , 2012 , 31, 7158-7164 | 3.8 | 17 |
| 33 | Synthesis, Electronic Structure, and Reactivity of Palladium(I) Dimers with Bridging Allyl, Cyclopentadienyl, and Indenyl Ligands. <i>Organometallics</i> , 2013 , 32, 4223-4238 | 3.8 | 16 |

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| 32 | Bis(dialkylphosphino)ferrocene-Ligated Nickel(II) Precatalysts for Suzuki-Miyaura Reactions of Aryl Carbonates. <i>Organometallics</i> , 2019 , 38, 3377-3387 | 3.8 | 15 |
| 31 | Additive-Free Formic Acid Dehydrogenation Using a Pincer-Supported Iron Catalyst. <i>ChemCatChem</i> , 2020 , 12, 1934-1938 | 5.2 | 15 |
| 30 | Comparison of dppf-Supported Nickel Precatalysts for the Suzuki-Miyaura Reaction: The Observation and Activity of Nickel(I). <i>Angewandte Chemie</i> , 2015 , 127, 13550-13554 | 3.6 | 15 |
| 29 | Modifications to the Aryl Group of dppf-Ligated Ni-Aryl Precatalysts: Impact on Speciation and Catalytic Activity in Suzuki-Miyaura Coupling Reactions. <i>Organometallics</i> , 2018 , 37, 3943-3955 | 3.8 | 15 |
| 28 | Making Carbon-Chlorine Bonds by Dipalladium Electrocatalysis. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 1134-1137 | 2.3 | 9 |
| 27 | DFT Investigation of Suzuki-Miyaura Reactions with Aryl Sulfamates Using a Dialkylbiarylphosphine-Ligated Palladium Catalyst. <i>Organometallics</i> , 2017 , 36, 3664-3675 | 3.8 | 9 |
| 26 | Tris(hydroxypropyl)phosphine Oxide: A Chiral Three-Dimensional Material with Nonlinear Optical Properties. <i>Crystal Growth and Design</i> , 2010 , 10, 1482-1485 | 3.5 | 9 |
| 25 | Dynamic ¹⁵ N NMR studies of iron phosphine complexes containing coordinated dinitrogen. <i>Magnetic Resonance in Chemistry</i> , 2003 , 41, 709-713 | 2.1 | 9 |
| 24 | Near-Unity Molecular Doping Efficiency in Monolayer MoS ₂ . <i>Advanced Electronic Materials</i> , 2021 , 7, 2000873 | 6.7 | 9 |
| 23 | Rational selection of co-catalysts for the deaminative hydrogenation of amides. <i>Chemical Science</i> , 2020 , 11, 2225-2230 | 9.4 | 8 |
| 22 | Comparison of the catalytic activity for the Suzuki-Miyaura reaction of (I ^B -Cp)Pd(IPr)Cl with (I ^B -cinnamyl)Pd(IPr)(Cl) and (I ^B -1-t-Bu-indenyl)Pd(IPr)(Cl). <i>Beilstein Journal of Organic Chemistry</i> , 2015 , 11, 2476-86 | 2.5 | 8 |
| 21 | Differences in the Performance of Allyl Based Palladium Precatalysts for Suzuki-Miyaura Reactions. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 5062-5078 | 5.6 | 8 |
| 20 | Palladium-Catalyzed Suzuki-Miyaura Reactions of Aspartic Acid Derived Phenyl Esters. <i>Organic Letters</i> , 2019 , 21, 5762-5766 | 6.2 | 6 |
| 19 | Effect of Nucleophilicity on the Kinetics of CO ₂ Insertion into Pincer-Supported Nickel Complexes. <i>Organometallics</i> , 2018 , 37, 3649-3653 | 3.8 | 6 |
| 18 | Organometallic Chemistry for Enabling Carbon Dioxide Utilization. <i>Organometallics</i> , 2020 , 39, 1457-1460 | 3.8 | 5 |
| 17 | Tunable and Practical Homogeneous Organic Reductants for Cross-Electrophile Coupling. <i>Journal of the American Chemical Society</i> , 2021 , | 16.4 | 5 |
| 16 | Synthesis and Reactivity of Paramagnetic Nickel Polypyridyl Complexes Relevant to C(sp ²)-C(sp ³) Coupling Reactions. <i>Angewandte Chemie</i> , 2019 , 131, 6155-6159 | 3.6 | 4 |
| 15 | Photoelectron Spectroscopy of Palladium(I) Dimers with Bridging Allyl Ligands. <i>Organometallics</i> , 2012 , 31, 8571-8576 | 3.8 | 4 |

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| 14 | Hydrogenation and Dehydrogenation Reactions Catalyzed by Iron Pincer Compounds 2018 , 111-131 | | 4 |
| 13 | An Unusual Example of Hypervalent Silicon: A Five-Coordinate Silyl Group Bridging Two Palladium or Nickel Centers through a Nonsymmetrical Four-Center Two-Electron Bond. <i>Angewandte Chemie</i> , 2014 , 126, 1121-1126 | 3.6 | 3 |
| 12 | Synthesis of organometallic pincer-supported cobalt(II) complexes. <i>Polyhedron</i> , 2020 , 177, 114308 | 2.7 | 2 |
| 11 | Synthesis of Triarylmethanes via Palladium-Catalyzed SuzukiMiyaura Reactions of Diarylmethyl Esters. <i>Organometallics</i> , 2021 , 40, 2332-2344 | 3.8 | 2 |
| 10 | Compact Super Electron-Donor to Monolayer MoS ₂ . <i>Nano Letters</i> , | 11.5 | 2 |
| 9 | Solar Cells: Quaternary Organic Solar Cells Enhanced by Cocrystalline Squaraines with Power Conversion Efficiencies >10% (Adv. Energy Mater. 21/2016). <i>Advanced Energy Materials</i> , 2016 , 6, | 21.8 | 1 |
| 8 | Pioneers and Influencers in Organometallic Chemistry: Professor Robert Crabtree's Storied Career via an Unusual Journey to the Ivy League. <i>Organometallics</i> , 2021 , 40, 295-301 | 3.8 | 1 |
| 7 | Understanding the Reactivity and Decomposition of a Highly Active Iron Pincer Catalyst for Hydrogenation and Dehydrogenation Reactions. <i>ACS Catalysis</i> , 2021 , 11, 10631-10646 | 13.1 | 1 |
| 6 | Dehydrogenative Synthesis of Carbamates from Formamides and Alcohols Using a Pincer-Supported Iron Catalyst. <i>ACS Catalysis</i> , 2021 , 11, 10614-10624 | 13.1 | 1 |
| 5 | Ligand and solvent effects on CO insertion into group 10 metal alkyl bonds.. <i>Chemical Science</i> , 2022 , 13, 2391-2404 | 9.4 | 0 |
| 4 | Comparative Coordination Chemistry of PNP and SNS Pincer Ruthenium Complexes. <i>Organometallics</i> , 2021 , 40, 4066-4076 | 3.8 | 0 |
| 3 | Reactivity and Structure of Complexes of Small Molecules: Carbon Dioxide 2021 , 959-975 | | |
| 2 | Chemical Reduction of Ni Cyclam and Characterization of Isolated Ni Cyclam with Cryogenic Vibrational Spectroscopy and Inert-Gas-Mediated High-Resolution Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 6715-6721 | 2.8 | |
| 1 | Lewis Acid Participation in Organometallic Chemistry 2021 , | | |