

JANIS LOUIE

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EDUCATION

1998 Ph. D., Chemistry, Yale University
1993 B. S., Chemistry, University of California, Los Angeles

RESEARCH AND PROFESSIONAL EXPERIENCE

2020 – 2021 Special Advisor for Student Affairs, University of Utah, College of Science
2019 – 2020 Special Advisor to the Associate Vice President for Faculty Affairs, University of Utah
2019 – 2020 Associate Dean for Student Affairs, University of Utah, College of Science
2018 – 2019 Co-chair, Curriculum Policy Review Board, University of Utah
2017 – 2019 Associate Dean for Academic Affairs, University of Utah, College of Science
2016 – 2017 Associate Chair of Academic Affairs, University of Utah, Department of Chemistry
2013 – present Henry Eyring Fellow and Professor, University of Utah, Department of Chemistry
2006 – 2013 Henry Eyring Fellow and Associate Professor, University of Utah, Department of Chemistry

2004 – 2006 Henry Eyring Assistant Professor, University of Utah, Department of Chemistry
2001 – 2004 Assistant Professor, University of Utah, Department of Chemistry
1998 – 2001 Postdoctoral Scholar, California Institute of Technology
Advisor: Professor Robert H. Grubbs

1993 – 1998 Graduate Studies, Yale University
Advisor: Professor John F. Hartwig

AWARDS AND HONORS

2019 AAAS If/Then Ambassador
2018 NIH SCORE Study Section
2018 University of Utah College of Science Award for Teaching Excellence
2017 NSF Chemistry Review Panel
2016 NSF Chemistry Review Panel
2016 NIH Study Section
2015 – 2016 University of Utah Leadership Development Program
2015 Sigma Chi Beta Epsilon Chapter Teacher Appreciation Award
2015 ACS Award Committee Chair
2014 – 2015 NSF Chemistry Review Panel
2014 San Francisco 248th ACS National Meeting Symposium Organizer
2014 – 2016 ACS Award Committee
2013 – current University of Utah Faraday Chemistry Lectures Presenter
2013 New Orleans 245th ACS National Meeting Symposium Organizer

2013	NSF Chemistry Review Panel
2013	NIH Postdoctoral Fellowship Study Section
2013	Fellow of the American Association for the Advancement of Science
2012	NSF Chemistry Review Panel
2012	University of Utah Inorganic Faculty Search Committee Member
2012	Kavli Foundation Fellow
2011	Internal Review of University of Utah Medicinal Chemistry Committee Member
2011	ACS Award Committee Chair
2011	Denver 242 nd ACS National Meeting Symposium Organizer
2009 – 2011	<i>Journal of the American Chemical Society</i> Advisory Board
2009	NSF Chemistry Review Panel
2009	Abbott Laboratories Lectureship (Montana State University)
2009 – 2011	ACS Award Committee
2010 – 2012	ACS Division of Organic Chemistry Board Member
2008 – 2011	Petroleum Research Fund Advisory Board
2008 – 2011	Synthetic and Biological Chemistry B NIH Study Section (permanent member)
2007	ACS Arthur C. Cope Scholar Award
2006	Alfred P. Sloan Research Fellowship Award
2005	ACS/Dreyfus PROGRESS Lectureship, Rising Stars Program (two universities)
2005 – 2010	Camille Dreyfus Teacher-Scholar Award
2004	Henry Eyring Assistant Professorship
2004 – 2009	NSF CAREER Award
1998 – 2001	NIH Postdoctoral Fellowship
1996	International Precious Metals Institute – Honorable Mention
1996	John F. Enders Graduate Research Award
1996	Boehringer-Ingelheim Fellowship
1993	Theta Kappa Phi Dr. Robert Kinsman Scholarship Award
1993	University of California, Los Angeles – Honors in Chemistry

COURSES TAUGHT

Chem 7160 (Organometallics)
 Chem 7200 (Organic Synthesis I)
 Chem 7280 (Organic Spectroscopy II)
 Chem 5710 (Advanced Organic Laboratory)
 Chem 2311H (Honors Organic Chemistry I)
 Chem 2321H (Honors Organic Chemistry II)
 Chem 2310 (Organic Chemistry I)
 Chem 2320 (Organic Chemistry II)

PUBLICATIONS

· UNIVERSITY OF UTAH ·

- (1) J. L. Harper, S. Felten, R. M. Stolley, P. H. -Y. Cheong, J. Louie “Origins of Regio- and Chemoselective Iron-Catalyzed [2+2+2] Cycloaddition towards 4,6-Disubstituted 2-Aminopyridines: Synergy of Iron-PDAI Catalyst” **2021**, *manuscript in prep.*
- (2) J. Ogle, N. Lahiri, C. Jaye, C. J. Tassone, D. A. Fischer, J. Louie, L. Whittaker-Brooks “Semiconducting to metallic electronic landscapes in defects controlled two-dimensional π -d conjugated coordination polymer thin films” *Adv. Funct. Mater.* **2020**, 2006920.
- (3) R. Tsuchikawa, N. Lotfizadeh, N. Lahiri, S. Liu, M. Lach, J. Louie, V. V. Deshpande “Unique Thermoelectric Properties Induced by Intrinsic Nanostructuring and Extrinsic Polycrystallinity in a 2D Metal-Organic

Framework” *Phys. Status Solidi* **2020**, *217*, 23, 437.

- (4) A. L. Clevenger, R. M. Stolley, J. Aderibigbe, J. Louie “Nickel and Bidentate Phosphines: Structure-Activity Relationships for Catalyst Formation” *Chem. Rev.* **2020**, *120*, 6124-6196.
- (5) J. Renner, A. Thakur, P. M. Rutz, J. L. Evangelista, P. Kumar, M. B. Prater, R. M. Stolley, J. Louie “Total Synthesis of Indolizidine Alkaloids via Nickel-Catalyzed (4+2) Cyclization” *Org. Lett.* **2020**, *22*, 924-928.
- (6) S. Datta, M. L. Saha, N. Lahiri, G. Yu, J. Louie, P. J. Stang “Hierarchical Self-Assembly of a Water Soluble Organoplatinum(II) Metallacycle into Well-Defined Nanostructures” *Org. Lett.* **2018**, *20*, 7020-7023.
- (7) S. Felten, S. F. Marshall,† A. J. Groom,† R. T. Vanderlinden, R. M. Stolley, J. Louie “Synthesis and Characterization of [(NHC)Ni(styrene)₂] Complexes: Isolation of Stable Mono-Carbene Nickel Complexes and Benchmarking of %V_{Bur} in (NHC)Ni π -Systems” *Organometallics* **2018**, *37*, 3687-3697.
- (8) N. Al, R. M. Stolley, N. D. Staudaher, R. T. Vanderlinden, J. Louie “Electronic Effect of Ligands on the Stability of Nickel-Ketene Complexes” *Organometallics* **2018**, *37*, 3750-3755.
- (9) A. L. Clevenger, R. M. Stolley, N. D. Staudaher, N. Al, A. Rheingold, R. T. Vanderlinden, J. Louie “A Comprehensive Study of the Reactions Between Chelating Phosphines and Ni(COD)₂” *Organometallics* **2018**, *37*, 3259-3268.
- (10) S. Datta, S. K. Misra, M. L. Saha, N. Lahiri, J. Louie, D. Pan, P. J. Stang “Orthogonal Self-Assembly of an Organoplatinum(II) Metallacycle and Cucurbit[8]uril That Delivers Curcumin to Cancer Cells” *Pro. Nat. Acad. Sci.* **2018**, *115*, 8087-8092.
- (11) N. A. Spahn, M. H. Nguyen, J. Renner, J. Louie “A Regioselective Iron-Catalyzed [2+2+2] Cycloaddition Reaction Forming 4,6-Disubstituted-2-Aminopyridines from Terminal Alkynes and Cyanamides” *J. Org. Chem.* **2017**, *82*, 234-242.
- (12) N. Lahiri, N. Lotfizadeh, R. Tsuchikawa, V. V. Deshpande, J. Louie “Hexaminobenzene as a Building Block for a Family of 2D Coordination Polymers” *J. Am. Chem. Soc.* **2017**, *139*, 19-22.
- (13) N. D. Staudaher, J. Lovelace,† M. P. Johnson,† J. Louie “Preparation of Aryl Alkyl Ketenes” *Org. Synth.* **2017**, *94*, 1-15.
- (14) N. D. Staudaher, A. M. Arif, J. Louie “Synergy Between Experimental and Computational Chemistry Reveals the Mechanism of Decomposition of Nickel-Ketene Complexes” *J. Am. Chem. Soc.* **2016**, *138*, 14083-14091.
- (15) Y. Zhong, N. A. Spahn, R. M. Stolley, M. H. Nguyen, J. Louie “3,5-Disubstituted-2-Aminopyridines via Ni-catalyzed Cycloaddition of Terminal Alkynes and Cyanamides” *Synlett* **2015**, *26*, 307-312; *Invited Contribution to a Special Issue (Cluster Report on Catalysis with Sustainable Metals)*.
- (16) A. Thakur, J. Louie “Advances in Nickel-Catalyzed Cycloaddition Reactions To Construct Carbocycles and Heterocycles” *Acc. Chem. Res.* **2015**, *48*, 2534-2365; *Invited Contribution to a Special Issue (Earth Abundant Metals in Homogeneous Catalysis)*. PubMed PMID: 26200651.
- (17) A. Thakur, J. Evangelista,† J. Louie “An *in situ* Ni-Catalyzed Approach to Substituted Piperidones” *J. Org. Chem.* **2015**, *80*, 9951-9958. PubMed PMID: 26412483.
- (18) N. D. Staudaher, R. M. Stolley, J. Louie “Synthesis, Mechanism of Formation, and Catalytic Activity of Xantphos Nickel π -Complexes” *Chem. Commun.* **2014**, *50*, 15577-15580. PubMed PMID: 25356514; PubMed Central PMCID: PMC4343202.

- (19) P. Kumar, A. Thakur, X. Hong, K. N. Houk, J. Louie “[Ni(NHC)]-catalyzed Cycloaddition of Diynes and Troponone: Apparent Enone Cycloaddition Involving an 8π Insertion” *J. Am. Chem. Soc.* **2014**, *136*, 17844-17851. PubMed PMID: 25416006; PubMed Central PMCID: PMC4291811.
- (20) A. Thakur, M. E. Facer,[†] J. Louie “Nickel Catalyzed Cycloaddition of 1,3-Dienes with 3-Azetidinones and 3-Oxetanes” *Angew. Chem. Int. Ed.* **2013**, *52*, 12161-12165. PubMed PMID: 24573793; PubMed Central PMCID: PMC4113093.
- (21) R. M. Stolley, H. A. Duong, J. Louie “Mechanistic Evaluation of the Ni(IPr)₂-Catalyzed Cycloaddition of Alkynes and Nitriles to Afford Pyridines: Evidence for the Formation of a Key η^1 -Ni(IPr)₂(RCN) Intermediate” *Organometallics* **2013**, *32*, 4952-4960. PubMed PMID: 25214702; PubMed Central PMCID: PMC4159214.
- (22) T. K. Lane, M. H. Nguyen, N. Spahn, J. Louie “The Iron-Catalysed Construction of 2-Aminopyrimidines from Alkynenitriles and Cyanamides” *Chem. Commun.* **2013**, *49*, 7735-7737. PubMed PMID: 23877441; PubMed Central PMCID: PMC4144345.
- (23) R. M. Stolley, H. A. Duong, D. R. Thomas, J. Louie “The Discovery of [Ni(IPr)RCN]₂ Species and their Role as Cycloaddition Catalysts for the Formation of Pyridines” *J. Am. Chem. Soc.* **2012**, *134*, 15154-15162. PubMed PMID: 22917161; PubMed Central PMCID: PMC3480329.
- (24) A. Thakur, K. Zhang, J. Louie “Suzuki-Miyaura Coupling of Hetero-aryl Boronic Acids and Vinyl Chlorides” *Chem. Comm.* **2012**, *48*, 203-205.
- (25) R. M. Stolley, W. X. Guo,[†] J. Louie “Palladium-Catalyzed Cross-Coupling of Cyanamides” *Org. Lett.* **2012**, *14*, 322-325; *C & E News* December 19, 2011. PubMed PMID: 22142553; PubMed Central PMCID: PMC4113087.
- (26) P. Kumar, J. Louie “A Single Step Approach to Highly Substituted Piperidines Via Ni-Catalyzed β -Carbon Elimination” *Org. Lett.* **2012**, *14*, 2026-2029; *Synfacts Highlight* 2012, *8*(7), 0715; *Synfacts Highlight* 2012, *8*(9), 0949. PubMed PMID: 22468962; PubMed Central PMCID: PMC4138124.
- (27) P. Kumar, K. Zhang, J. Louie “An Expedient Route to Eight-Membered Heterocycles by Nickel-Catalyzed Cycloaddition: Low-Temperature C_{sp2}-C_{sp3} Bond Cleavage” *Angew. Chem. Int. Ed.* **2012**, *51*, 8602-8606. PubMed PMID: 22806996; PubMed Central PMCID: PMC3557805.
- (28) T. K. Lane, B. R. D’Souza, J. Louie “2-Aminopyridines from Iron-Catalyzed Cycloaddition of Diynes and Cyanamides” *J. Org. Chem.* **2012**, *77*, 7555-7563. PubMed PMID: 22845666; PubMed Central PMCID: PMC3480319.
- (29) K. Zhang, M. Conda-Sheridan, S. Cooke, J. Louie “N-Heterocyclic Carbene Bound Ni(I)-Complexes and Their Roles in Catalysis” *Organometallics* **2011**, *30*, 2546-2552. PubMed PMID: 21572533; PubMed Central PMCID: PMC3092490.
- (30) K. Zhang, J. Louie “Rhodium-Catalyzed Decarboxylative Cycloaddition Route to Substituted Anilines” *J. Org. Chem.* **2011**, *76*, 4686-4691.
- (31) P. Kumar, D. M. Troast, R. Cella, J. Louie “Ni-Catalyzed Ketene Cycloaddition: A System that Resists the Formation of Decarbonylation Side Products” *J. Am. Chem. Soc.* **2011**, *133*, 7719-7721; *C & E News* May 9, 2011. PubMed PMID: 21528904; PubMed Central PMCID: PMC3107595.
- (32) B. R. D’Souza, T. K. Lane, J. Louie “Iron Catalyzed Cycloaddition of Cyanoalkynes and Alkynes” *Org. Lett.* **2011**, *13*, 2936-2939. PubMed PMID: 21557582; PubMed Central PMCID: PMC3203642.

- (33) R. M. Stolley, M. T. Maczka,[†] J. Louie “Nickel-Catalyzed Cycloaddition of Diynes and Cyanamides” *Eur. J. Org. Chem.* **2011**, 20-21, 3815-3824; *Invited Contribution to a Special Edition Honoring Women in Chemistry*. PubMed PMID: 25346615; PubMed Central PMCID: PMC4208422.
- (34) P. Kumar, S. Prescher,[†] J. Louie “A Serendipitous Discovery of a Nickel-Catalyst for Cycloaddition of Diynes with Unactivated Nitriles” *Angew. Chem. Int. Ed.* **2011**, 50, 10694-10698; *Synfacts Highlight* 2012, 8(1), 0018 DOI: 10.1055/s-0031-1289949. PubMed PMID: 21932226; PubMed Central PMCID: PMC3557808.
- (35) P. Kumar, J. Louie “Double the Fun: Nickel-Catalyzed Cycloaddition *via* Two Sequential C-H Activations” *Angew. Chem. Int. Ed.* **2011**, 50, 10768-10769; *Invited Highlight*.
- (36) B. R. Van Ausdall, N. F. Pols,[†] V. A. Kincaid,[†] A. M. Arif, J. Louie “NHC·CO₂-bound MBPh₄ Complexes (M = Li, Na) and their Relevance in Transcarboxylation Reactions” *J. Org. Chem.* **2011**, 76, 8413-8420.
- (37) S. Wang, D. M. Troast, M. Conda-Sheridan, G. Zuo, D. LaGarde, J. Louie, D. Tantillo “On the Mechanism of the Ni(0)-Catalyzed Vinylcyclopropane-Cyclopentene Rearrangement” *J. Org. Chem.* **2009**, 20, 7822-7833. PubMed PMID: 19780523; PubMed Central PMCID: PMC2762793.
- (38) B. R. D’Souza, J. Louie “Nickel Catalyzed Cycloadditive Couplings of Enynes and Isocyanates” *Org. Lett.* **2009**, 11, 4168-4171. PubMed PMID: 19739689; PubMed Central PMCID: PMC2792207.
- (39) B. R. Van Ausdall, J. L. Glass,[†] K. M. Wiggins,[†] A. M. Arif, J. Louie “A Systematic Investigation of Factors Influencing the Decarboxylation of Imidazolium Carboxylates” *J. Org. Chem.* **2009**, 20, 7935-7942.
- (40) T. N. Tekavec, J. Louie “Nickel-Catalyzed Cycloadditions of Unsaturated Hydrocarbons, Aldehydes, and Ketones” *J. Org. Chem.* **2008**, 73, 2641-2648. PubMed PMID: 18318544; PubMed Central PMCID: PMC4144363.
- (41) T. N. Tekavec, J. Louie “Nickel-Catalyzed Cycloisomerization of Enynes: Mechanistic Evidence for Catalyst Generation via C-H Activation of Carbene Ligands” *Tetrahedron* **2008**, 64, 6870-6875; *Invited Contribution to a Special Edition Honoring Professor John F. Hartwig’s Young Investigator Prize*. PubMed PMID: 22039310; PubMed Central PMCID: PMC3203641.
- (42) K. Zhang, P. R. Chopade, J. Louie “Coupling of Vinyl Aziridines and Isocyanates” *Tetrahedron Lett.* **2008**, 49, 4306-4309. PubMed PMID: 19122764; PubMed Central PMCID: PMC2515493.
- (43) G. Zuo, K. Zhang, J. Louie “Nickel Catalyzed Reactions of Vinyl Aziridines and Aziridinyl-enynes” *Tetrahedron Lett.* **2008**, 49, 6797-6799. PubMed PMID: 19946352; PubMed Central PMCID: PMC2598760.
- (44) H. A. Duong, J. Louie “A Nickel-Catalyzed Cycloaddition of Alkynes and Isocyanates that Affords Pyrimidine-diones” *Tetrahedron* **2006**, 62, 7552-7559; *Invited Contribution to a Special Edition on Recent Advances in Organonickel Chemistry*.
- (45) T. N. Tekavec, G. Zuo, K. Simon,[†] J. Louie “An In Situ Ni Catalyst for Cycloaddition Reactions” *J. Org. Chem.* **2006**, 71, 5834-5836.
- (46) P. R. Chopade, J. Louie “[2+2+2] Cycloaddition Reactions Catalyzed by Transition Metal Complexes” *Adv. Synth. Catal.* **2006**, 348, 2307-2327.
- (47) J. Louie “Transition Metal Catalyzed Reactions of Carbon Dioxide and Other Heterocumulenes” *Curr. Org. Chem.* **2005**, 9, 605-623; *Invited Contribution to a Special Issue on Metal-Catalyzed Reactions*.
- (48) M. M. McCormick, H. A. Duong, G. Zuo, J. Louie “A Nickel-Catalyzed Route to Pyridines” *J. Am. Chem. Soc.* **2005**, 127, 5030-5031.

- (49) G. Zuo, J. Louie “Selectivity in Nickel-Catalyzed Rearrangements of Cyclopropyl-ynes” *J. Am. Chem. Soc.* **2005**, *127*, 5798-5799.
- (50) T. N. Tekavec, J. Louie “Nickel-Catalyzed Cycloadditions of Unsaturated Hydrocarbons and Carbonyls Compounds” *Org. Lett.* **2005**, *7*, 4037-4039.
- (51) H. A. Duong, J. Louie “Regioselectivity in Ni/Phosphine Catalyzed Cycloadditions of Alkynes and Isocyanates” *J. Organomet. Chem.* **2005**, *690*, 5098-5104; *Invited Contribution to a Special Issue (Organometallic Chemistry - The Next Generation)*.
- (52) H. A. Duong, T. N. Tekavec, A. M. Arif, J. Louie “Reversible Carboxylations of N-Heterocyclic Carbenes” *Chem. Comm.* **2004**, *1*, 112-113.
- (53) G. Zuo, J. Louie “Highly Active Nickel Catalysts for the Isomerization of Unactivated Vinyl Cyclopropanes to Cyclopentenes” *Angew. Chem. Int. Ed.* **2004**, *43*, 2277-2279; “Hot Paper” Web Release 03/24/2004.
- (54) T. N. Tekavec, A. M. Arif, J. Louie “Regioselectivity in Nickel-Catalyzed Cycloadditions of CO₂ and Diynes” *Tetrahedron* **2004**, *60*, 7431-7437; *Invited Contribution to a Special Edition Honoring Professor Robert H. Grubbs’ Tetrahedron Prize*.
- (55) M. V. Farnworth,[†] M. J. Cross, J. Louie “Rhodium-Catalyzed Addition of Alcohols to Terminal Enones” *Tetrahedron Lett.* **2004**, *45*, 7441-7443.
- (56) H. A. Duong, M. J. Cross, J. Louie “Nickel-Catalyzed Cycloadditions of Alkynes and Isocyanates” *J. Am. Chem. Soc.* **2004**, *126*, 11438-11439.
- (57) H. A. Duong, M. J. Cross, J. Louie “N-Heterocyclic Carbenes as Highly Efficient Catalysts for the Cyclotrimerization of Isocyanates” *Org. Lett.* **2004**, *6*, 4679-4681.
- (58) J. Louie, J. E. Gibby,[†] M. V. Farnworth,[†] T. N. Tekavec “Efficient Nickel-Catalyzed [2+2+2] Cycloaddition of CO₂ and Diynes” *J. Am. Chem. Soc.* **2002**, *124*, 15188-15189; **2004**, 8590 (addition/correction).

BOOK CHAPTERS

- (59) N. D. Staudaher, J. Louie “[2+2+2] Cycloaddition with Heterocumulenes” in *Organic Reactions*; Denmark, S. E., ed.; **2018**, *in press*.
- (60) Zhong, Y.; Felten, S.; Louie, J., *Science of Synthesis: N-Heterocyclic Carbenes in Catalytic Organic Synthesis*, (2016) **2**, 151.
- (61) S. Felton, J. Louie “1,3-Bis(2,6-diisopropylphenyl)-4,5-dihydroimidazol-2-ylidene” in *Encyclopedia of Reagents for Organic Synthesis*; Paquette, L. A., ed.; John Wiley & Sons Ltd.: Chichester, **2016**.
- (62) A. Thakur, J. Louie “Vinylcyclopropane-cyclopentene rearrangements” in *Molecular Rearrangements in Organic Synthesis*, Rojas, C., ed.; John Wiley & Sons Ltd.: New York, **2015**.
- (63) R. M. Stolley, J. Louie “The Organometallic Chemistry of Ni (update)” in *Science of Synthesis*; Plietker, B., ed.; Houben-Weyl: **2012**.
- (64) P. Kumar, J. Louie “Nickel-Mediated Cycloaddition (Chapter 2.3 in Chapter 2: [2+2+2] and [2+2+1] Cycloaddition) in *Transition-Metal-Mediated Aromatic Ring Construction*, Tanaka, K., ed.; John Wiley & Sons Ltd.: Chichester, **2012**.

- (65) R. Cella, J. Louie "Transition Metal-NHC catalyzed cyclizations" in *N-Heterocyclic Carbenes in Transition Metal Catalysis and Organocatalysis*; Cazin, C. S. J., ed.; Springer Publishing Co.: New York, **2010**.
- (66) J. Louie "Bis[tri(*o*-tolyl)phosphine]palladium" in *Encyclopedia of Reagents for Organic Synthesis*; Paquette, L. A., ed.; John Wiley & Sons Ltd.: Chichester, **2007**.
- (67) J. Louie, G. Zuo, H. Duong "Bis(1,5-cyclooctadiene)nickel [update]" in *Encyclopedia of Reagents for Organic Synthesis*; Paquette, L. A., ed.; John Wiley & Sons Ltd.: Chichester, **2006**.
- (68) J. Louie, T. N. Tekavec "Transition metal-catalyzed reactions using N-heterocyclic carbene ligands (besides Pd-catalyzed and metathesis reactions)" in *N-heterocyclic carbenes in transition metal catalysis*; Glorius, F., ed.; Wiley-VCH: Weinheim, **2006**.
- (69) J. Louie "Ni-NHC mediated catalysis" in *N-Heterocyclic Carbenes in Synthesis*; Nolan, S. P., ed.; Wiley-VCH: Weinheim, **2006**.

· CALTECH ·

- (70) J. Louie, R. H. Grubbs "Metathesis of Electron Rich Olefins: Structure and Reactivity of Electron Rich Carbene Complexes" *Organometallics* **2002**, *21*, 2153-2164.
- (71) J. Louie, R. H. Grubbs "Highly Active Metathesis Catalysts Generated In Situ from Inexpensive and Air Stable Precursors" *Angew. Chem. Int. Ed.* **2001**, *40*, 247-249; *Chemistry and Industry* Feb. 19, 2001, 121.
- (72) J. Louie, R. H. Grubbs "Reaction of Diazoalkanes with Iron Phosphine Complexes Affords Novel Phosphazine Complexes" *Organometallics* **2001**, *20*, 481-484.
- (73) J. Louie, C. W. Bielawski, R. H. Grubbs "Tandem Catalysis: The Sequential Mediation of Olefin Metathesis, Hydrogenation, and Hydrogen Transfer Using Single Component Ruthenium Complexes" *J. Am. Chem. Soc.* **2001**, *123*, 11312-11313; *C & E News* Sept. 10, 2001, 32.
- (74) J. Louie, R. H. Grubbs "Highly Active Iron Imidazolylidene Catalysts for Atom Transfer Radical Polymerization" *Chem. Comm.* **2000**, *16*, 1479-1480.
- (75) C. W. Bielawski, J. Louie, R. H. Grubbs "Tandem Catalysis: Three Mechanistically Distinct Reactions from a Single Ruthenium Complex" *J. Am. Chem. Soc.* **2000**, *122*, 12872-12873; *C & E News* Dec. 18, 2000, 22; *Science* Jan. 5, 2001, 291, 15; *Nature Science Update* Dec. 8, 2001.

· YALE UNIVERSITY ·

- (76) M. I. Ranasinghe, O. P. Varnavski, J. Pawlas, S. I. Hauck, J. Louie, J. F. Hartwig, T. Goodson, III "Femtosecond Excitation Energy Transport in Triarylamine Dendrimers" *J. Am. Chem. Soc.* **2002**, *124*, 6520-6521.
- (77) J. F. Hartwig, F. E. Goodson, J. Louie, S. Hauck, "The synthesis of triarylamine macromolecules by palladium-catalyzed amination of aryl halides." *Polym. Mater. Sci. Eng.* **1999**, *80*, 41-42.
- (78) J. Louie, J. F. Hartwig "The Largest Discrete Oligo(*m*-aniline). An Exponential Growth Strategy Using Palladium-Catalyzed Amination of Aryl Sulfonates" *Macromolecules* **1998**, *31*, 6737-6739; *Chemistry and Industry* Feb. 16, 1998, 140.
- (79) J. Louie, M. S. Driver, B. C. Hamann, J. F. Hartwig "Palladium-Catalyzed Amination of Aryl Triflates and Importance of Triflate Addition Rate" *J. Org. Chem.* **1997**, *62*, 1268-1273.
- (80) J. Louie, J. F. Hartwig "Discrete High Molecular Weight Triarylamine Dendrimers Prepared by Palladium-Catalyzed Amination" *J. Am. Chem. Soc.* **1997**, *119*, 11695-11696.

- (81) J. Louie, F. Paul, J. F. Hartwig “Catalysis with Platinum-Group Alkylamido Complexes. The Active Palladium Amide in Catalytic Aryl Halide Aminations as Deduced from Kinetic Data and Independent Generation” *Organometallics* **1996**, *15*, 2794-2805.
- (82) J. Louie, J. F. Hartwig “A Route to Pd(0) From Pd(II) Metallacycles in Amination and Cross-Coupling Chemistry” *Angew. Chem., Int. Ed. Eng.* **1996**, *35*, 2359-2361.
- (83) J. Louie, J. F. Hartwig “Palladium-Catalyzed Synthesis of Arylamines from Aryl Halides. Mechanistic Analysis Leads to Aryl Amination in the Absence of Tin” *Tetrahedron Lett.* **1995**, *36*, 3609-3612.
- (84) J. Louie, J. F. Hartwig “Transmetalation Involving Organotin Aryl, Thiolate, and Amide Compounds. An Unusual Type of Dissociative Ligand Substitution Reaction” *J. Am. Chem. Soc.* **1995**, *117*, 11598-11599.

† denotes undergraduate

INVITED PRESENTATIONS

NATIONAL AND INTERNATIONAL CONFERENCES

- 7-23-02 Organometallic Gordon Conference (1 of 6 posters picked for presentation)
- 5-30-03 NSF Inorganic Workshop
- 8-11-03 NSF Physical Organic Workshop
- 7-7-04 14th International Symposium on Homogenous Catalysis (Munich, Germany)
(Oral Contribution: 1 of 19 (out of 800 posters) picked for presentation)
- 7-14-04 Organometallic Gordon Conference
- 7-27-04 Natural Products Gordon Conference
- 8-23-04 Philadelphia 227th National ACS Meeting
· N-Heterocyclic Carbene symposium
- 6-21-05 International Conference on Carbon Dioxide Utilization (Oslo, Norway)
- 7-19-05 Inorganic Chemistry Gordon Conference
- 8-30-05 Brazilian Meeting on Organic Synthesis (BMOS), Canela, Brazil
- 12-15-05 Pacificchem 2005
· “Metal Complexes of Mixed-Donor Multidentate Ligands: Chemistry & Applications”
symposium
· “Reaction Chemistry of Carbon Dioxide in Catalysis” symposium
· “Recent Advances in Nickel and Palladium Catalyzed Reactions” symposium
- 7-17-06 Organic Reactions and Processes Gordon Conference
- 6-21/25-07 NSF Synthetic Organic Workshop
- 7-28/31-07 2nd USA-UK Synthesis Workshop: New Directions in Chemical Synthesis
- 8-19/23-07 Boston 234th National ACS Meeting
· Cope Scholar Award Presentation
- 6-25/28-08 32nd Reaction Mechanisms Conference, UNC Chapel Hill
- 7-9-08 NSF Workshop on “Reversing Global Warming: Chemical Recycling and Utilization of CO₂”
- 6-28-09 Heterocyclic Compounds Gordon Conference
- 8-31-11 Denver 242nd National ACS Meeting
- 8-31-12 Philadelphia 244th National ACS Meeting
- 1-20-13 Winter Conference on Medicinal and Bioorganic Chemistry (WCMBC): Frontiers in Synthesis Symposium
- 8-8-13 Organometallic Gordon Conference
- 9-6-13 Indianapolis 246th National ACS Meeting
- 6-8-14 Inorganic Chemistry Gordon Conference
- 7-20-14 Natural Products Gordon Conference
- 8-11-14 San Francisco 248th National ACS Meeting
- 6-21-15 Heterocycles Gordon Conference

7-27-15 Telluride Research Center Workshop on “Enabling Technology for Reactions and Processes”
10-23-16 International Learning Assistant Conference
2-26-17 Cottrell Scholars Collaborative (CSC) Academic Leadership Team (ALT) Workshop
4-24-17 National Diversity Equity Workshop
6-21-17 Organometallics Gordon Conference
10-22-19 AAAS If/Then Summit

· FUTURE CONFERENCES

UNIVERSITIES AND COMPANIES

4-01-03 Bucknell University
4-02-03 Shippensburg University
9-4-03 University of Utah
9-23-03 Los Alamos National Laboratories
9-26-03 University of Ottawa
10-3-03 Idaho State University
2-19-04 University of Alabama
2-20-04 University of South Alabama
3-12-04 Louisiana State University
3-19-04 University of Colorado, Colorado Springs
3-22-04 Colorado College
4-2-04 University of Notre Dame
4-5-04 Michigan State University
9-16-04 IBM, Almaden, CA
11-19-04 University of Nevada, Reno
12-15-04 University of Delaware
1-6-05 University of California, Davis
2-11-05 San Diego State University
2-14-05 University of California, San Diego
3-9-05 Indiana University
3-10-05 Butler University
3-11-05 University of Kentucky
3-22-05 Pfizer, Groton, CT
3-23-05 Merck, Rahway, NJ
3-24-05 Princeton University
4-1-05 University of New Orleans
4-19-05 University of Washington
8-23-05 Eli Lilly, Indianapolis, IN
9-6-05 University of Utah
9-9-05 Illinois State University
9-13-05 Purdue University
9-16-05 University of Oklahoma
9-19-05 University of Michigan
9-20-05 Wayne State University
9-21-05 University of Toledo
9-26-05 University of Arkansas
10-5-05 University of California, Irvine
10-11-05 University of Hawaii
11-10-05 Brigham Young University
11-14-05 North Dakota State University
11-15-05 University of Minnesota
1-26-06 Johnson & Johnson, Philadelphia, PA
1-27-06 Bristol-Myers Squibb, Wallingford, CT
4-28-06 Scripps Research Institute
5-8-06 Merck Frosst Centre for Therapeutic Research, Montreal, Canada

9-28-06 Duke University
 9-29-06 University of North Carolina, Chapel Hill
 1-16-07 California State University, Los Angeles
 2-27-07 Florida State University
 3-12-07 Sepracor
 3-13-07 Boston College
 4-9-07 University of Illinois, Urbana Champaign
 4-12-07 University of California, Los Angeles (student invited Winstein Lecture)
 5-24-07 Merck, West Point, PA
 6-7-07 Abbott
 12-20-07 BMS, New Brunswick, NJ
 2-7-08 Cal State Fullerton
 2-25-08 University of Montana
 5-2-08 Amgen, Cambridge, MA
 4-3-09 Montana State University (Abbott Laboratories Lectureship)
 9-24-09 Cephalon
 9-24-09 Philadelphia Organic Chemists' Club Monthly Meeting
 9-25-09 GlaxoSmithKline, Collegeville, PA
 2-17-10 University of California, Riverside
 10-13-11 University of South Florida
 9-27-13 Idaho State University
 11-6-14 Los Alamos National Laboratories
 4-14-17 University of Wyoming
 1-8-18 University of California, San Diego
 1-10-18 University of California, Riverside
 2-15-18 University of California, Los Angeles
 4-13-18 University of Southern California
 9-8-18 Dalhousie University
 2-14-19 Williams and Mary University

· FUTURE PRESENTATIONS

TBD Utah State University
 TBD Peking University Shenzhen Graduate School
 TBD Dupont, China
 TBD Tokyo Institute of Technology
 TBD Université Paris Sud

CONTRIBUTED PRESENTATIONS

- (1) J. Louie, F. Paul, J. F. Hartwig "Mechanistic Advances in Palladium-Catalyzed Carbon-Heteroatom Bond-Forming Reactions" Talk presented at the 210th Chicago National ACS meeting (1995).
- (2) J. Louie, J. F. Hartwig "A New Route for Synthesizing Triarylamine-based Starburst Dendrimers via Palladium-Catalyzed Aryl Halide Amination" Talk presented at the 214th Las Vegas National ACS meeting (1997).
- (3) J. Louie, C. W. Bielawski, R. H. Grubbs "A Single Component Ruthenium Catalyst Performs Ring-Opening Metathesis Polymerization and Atom Transfer Radical Polymerization" Talk presented at the 220th Washington D. C. National ACS meeting (2000).
- (4) J. Louie, C. W. Bielawski, R. H. Grubbs "Tandem Catalysis: Three Mechanistically Distinct Reactions Mediated by Single Ruthenium Complexes" Poster presented at the 2001 Organometallic Gordon Conference.
- (5) J. E. Gibby, A. J. Price, M. V. Farnworth, J. Louie "Efficient Nickel-Catalyzed [2+2+2] Cycloaddition of CO₂ and Dienes" Poster presented at the 2002 Organometallic Gordon Conference.

- (6) J. Louie, J. E. Gibby, M. V. Farnworth, T. N. Tekavec “Efficient Nickel-Catalyzed [2+2+2] Cycloaddition of CO₂ and Dienes” Talk presented at the 225th New Orleans National ACS meeting (2003).

STUDENT PRESENTATIONS (UNIVERSITY OF UTAH)

- (7) J. E. Gibby,[†] J. Louie “Nickel Catalyzed Cycloaddition of Dienes and Carbon Dioxide” Poster presented at 2002 Pfizer Undergraduate Award Symposium
- (8) M. V. Farnworth,[†] J. Louie “Atom Efficient Preparations of Lactones from Carbon Dioxide” Poster presented at 2003 National Conference of Undergraduate Research.
- (9) T. N. Tekavec, J. Louie “Nickel-Catalyzed Cycloadditions of Unactivated Carbonyls with Unsaturated Hydrocarbons” Poster presented at the 39th National Organic Symposium (2005).
- (10) H. A. Duong, J. Louie “Nickel-Catalyzed Cycloadditions of Alkynes and Isocyanates” Poster presented at the 39th National Organic Symposium (2005).
- (11) G. Zuo, J. Louie “Nickel-Catalyzed Rearrangements of Vinylcyclopropanes and Cyclopropylen-ynes” Poster presented at the 39th National Organic Symposium (2005).
- (12) M. M. McCormick, H. A. Duong, G. Zuo, J. Louie “Nickel-Catalyzed Additions of Alkynes and Nitriles” Poster presented at the 39th National Organic Symposium (2005).
- (13) T. N. Tekavec, J. Louie “Nickel-Catalyzed Cycloadditions of Unactivated Carbonyls with Unsaturated Hydrocarbons” Oral presentation at the 230th Washington D. C. National ACS meeting (2005).
- (14) H. A. Duong, J. Louie “Nickel-Catalyzed Cycloadditions of Alkynes and Isocyanates” Poster presented at the 230th Washington D. C. National ACS meeting (2005).
- (15) G. Zuo, J. Louie “Nickel-Catalyzed Rearrangements of Vinylcyclopropanes and Cyclopropylen-ynes” Poster presented at the 230th Washington D. C. National ACS meeting (2005).
- (16) K. Wiggins,[†] J. Louie “Synthesis of a novel NHC and analysis of its selectivity in Ni-catalyzed rearrangements of cyclopropylen-ynes” Poster presented at the 235th New Orleans National ACS meeting (2008). *Selected for presentation in the Sci-Mix Session.*
- (17) B. R. D’Souza, J. Louie “Nickel Catalyzed Cycloaddition Reactions of Enynes and Isocyanates” Poster presented at the 237th Salt Lake City National ACS meeting (2009).
- (18) B. R. Van Ausdall, J. L. Glass, V. A. Kincaid, J. Louie “Synthesis of N-Heterocyclic Carbene Carboxylates and the Study of Factors Affecting Decarboxylation” Oral presentation at the 237th Salt Lake City National ACS meeting (2009).
- (19) R. Cella, P. Kumar, D. M. Troast, J. Louie “[2+2+2] Cycloaddition Reactions between Dienes and Ketenes” Poster presented at the 237th Salt Lake City National ACS meeting (2009).
- (20) K. Zhang, J. Louie “Coupling of Vinyl Aziridines and Phenyl Isocyanate” Talk presented at the 237th Salt Lake City National ACS meeting (2009)
- (21) B. R. D’Souza, J. Louie “Iron catalyzed cycloaddition of cyanoalkynes and alkynes” Poster presented at the 241st Anaheim National ACS meeting (2011).
- (22) B. R. Van Ausdall, Nils F. Poth, V. A. Kincaid, J. Louie “Kinetic Investigation of CO₂ Transfer Reactions Involving N-Heterocyclic Carbene Carboxylates” Poster presented at the 241st Anaheim National ACS meeting (2011).

- (23) R. Stolley, M. T. Maczka, J. Louie “Metal Catalyzed Reactions of Cyanamides” Oral Presentation at the 242nd Denver National ACS meeting (2011).
- (24) T. K. Lane, B. R. D’Souza, J. Louie “Iron-catalyzed [2+2+2] cycloadditions for the synthesis of substituted pyridines” Oral Presentation at the 244th Philadelphia National ACS meeting (2012).
- (25) A. Thakur, J. Louie “Nickel Catalyzed Cycloaddition of 1,3-Dienes with 3-Azetidinones & 3-Oxetanones via C(sp²)-C(sp³) Bond Activation” Poster Presentation presented at Heterocycles Gordon Conference (2013).

PATENTS

- (1) J. F. Hartwig, M. S. Driver, J. Louie, B. Hamann “Metal-catalyzed amination of organic sulfonates to organic amines” (Yale University), US Patent 5,817,877 (1998).
- (2) R. H. Grubbs, J. P. Morgan, D. Benitez, J. Louie " One-Pot Synthesis of Group 8 Transitional Metal Carbene Complexes Useful as Olefin Metathesis Catalysts" (California Institute of Technology), International Patent WO 02/079208.
- (3) R. H. Grubbs, J. Louie, C. W. Bielawski "Tandem Catalysis: The Sequential Mediation of Olefin Metathesis, Hydrogenation, and Hydrogen Transfer Using Single Component Ruthenium Complexes" (California Institute of Technology), US 01/121 (2001) US patent appl.

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- (4) J. Louie, H. A. Duong, M. J. Cross “N-heterocyclic carbenes as highly efficient catalysts for the cyclotrimerization of isocyanates” (University of Utah), (2004) US patent appl.
- (5) J. Louie, P. Kumar “A New Route to Lactams via Nickel-Catalyzed Coupling of Azabutanones and Alkynes” (University of Utah), (2011) US patent appl.
- (6) J. Louie, P. Kumar “Nickel-Catalyzed Coupling of Azabutanones and Dienes” (University of Utah), (2011) US patent appl.

RESEARCH FUNDING

CURRENT

PENDING

NSF 2021 – 2024; \$588,764/3 years; to be submitted
“*Expedited Routes to N-Alkaloids*”

Department Of Energy, 2021 – 2024; TBD, co-PI with M. Gruenwald, L. Whittaker-Brooks, F. Liu, V. Desphande
“Developing self-assembly strategies for the fabrication of well-ordered 2D coordination polymers with discrete topological insulating states”

PAST

Petroleum Research Fund – Type G (37612-G), 2002 – 2004 ; \$35,000/2 yr
“*The Development of Nitrile Hydroamination Catalysts Based on Transition Metal Imido Complexes*”

University of Utah Seed Grant, 2002 – 2003; \$33,000/1 yr
“*The Development of Nitrile Hydroamination Catalysts Based on Transition Metal Imido Complexes*”

NSF – CAREER Award (#0345042), 2004 – 2009; \$560,000/5 yrs
“Transition-Metal Catalyzed Cycloaddition Reactions”

Department Of Energy, 2005 – 2008; \$230,000/3 yrs
“Harnessing the Chemistry of CO₂”

Sloan Research Fellowship, 2006 – 2008; \$45,000/2 yrs

Camille Dreyfus Teacher-Scholar Award 2005; \$75,000
“The Development of Transition Metal Catalysts for New Cycloaddition Reactions”

NIH, 2005 – 2010; \$1,703,030/5 yrs
“Transition Metal Mediated Routes to Heterocycles and Carbocycles”

NSF 2009 – 2012; \$420,000/3 years
“New Methods to Prepare Carbon-Heteroatom and Carbon-Carbon Bonds”

Cephalon, 2009-2012; \$75,000

Cope Scholar Award, 2007; \$40,000
Department Of Energy, 2009 – 2013; \$450,000/4 yrs
“Harnessing the Chemistry of CO₂”

NASA #NNX14CJ43P
6/2014 – 1/2015; \$45,000/6 months for Phase 1; co-PI with Dr. Yu-Hui Chui of Busek, Inc.
“Novel Metal Organic Framework Synthesis for Spacecraft Oxygen Capture”

NSF 2012 – 2015; \$421,000/3 years
“New Methods to Prepare Carbon-Heteroatom and Carbon-Carbon Bonds”

University of Utah and MRSEC Seed Grant – 2014-2016; \$65,000
“Syntheses of Organometallic Topological Insulators”

NSF XSEDE 2015-2016; 50,000 SU's
“Nickel Ketene Complexes”

NSF-REU 2015 – 2017; \$325,000/3 years (co-PI: Jon Rainier)
“Catalysis in a Collaborative REU program at the University of Utah”

University of Utah Instrumentation Grant 2015; \$60,000 (co-PI: Matthew Kieber-Emmons)
“Electronic Paramagnetic Resonance (EPR) Spectrometer upgrade”

USTAR 2017-2018; \$125,000 (co-PIs: Tianbiao Leo Liu of Utah State University, Dean Wheeler of Brigham Young University); Louie portion is \$40,000
“Designer Metal Organic Frameworks (MOFs) Energy Materials for Li Rechargeable Batteries”

NSF XSEDE 2017-2018; 100,000 SU's
“Studying the structure and interaction of a Nickel-NHC catalyst in the intramolecular [5+2] cyclization of vinylcyclopropynes”

Merck – unrestricted grant, 2005; \$15,000

NIH, 2014 – 2019; \$968,124/5 yrs
“Transition Metal Mediated Routes to Heterocycles and Carbocycles”

Minh H. Nguyen	3/12 – 12/13	
Al Noman	6/16 – 4/18	Masters
Nathan A. Spahn	1/13 – 11/17	Ph.D.; Scientist, Orbital ATK
Nicholas D. Staudaher	1/13 – 11/17	Ph.D.; postdoc at U of Wisconsin
Ryan M. Stolley	3/09 – 7/13	Ph.D.; Lecturer at U of Utah
Thomas N. Tekavec	5/02 – 1/07	Ph.D.; Shell
Ashish Thakur	3/10 – 5/15	Ph.D.; Research Scientist at NCATS
David N. Thomas	12/07 – 12/11	Thesis Masters; Lecturer at U of Utah
Bret Van Ausdall	3/06 – 8/11	Ph.D.; Process Design, Skyonic Corp.
Samali Weliwatte	1/18 – 3/20	Ph.D. student at U of Utah
Kainan Zhang	11/06 – 2/11	Ph.D.; Sr. Chemist at Dow Chemical Shanghai
Yao Zhong	1/13 – 8/15	Masters
Gang Zuo	1/03 – 12/07	Ph.D.; Dupont China Holding Co.

Undergraduates

Thanakorn Baker	2/16 – 8/17	
Ronald Bakus	REU Student Summer 2005	Postdoc at UCSB
Elizabeth Black	12/06 – 12/08	Postdoc at UCB
John A. Brailsford	Summer 2003	Research Investigator at BMS
Amalia Brown	Spring 2008	
Michael S. Bultman	NSF-REU Summer 2002	Process Chemist at BMS
Tony Bozzio	Spring 2004	
Adrienne Carey	1/06 – 12/08	Medical Fellow, U of UT
Marissa C. Christensen	1/12 – 4/12	
Melinda Downs	1/10 – 8/10	Materials Engineer, Northrup Grumman Co.
Michael L. English	Summer 2002	Medical Student, Ohio State U
Megan Facer	9/12 – 9/13	Chem. Ph.D. Student, U of UT
Marc V. Farnworth	UROP, Summer 2002 – Summer 2004	Family Medicine Physician
Elizabeth Fine	5/17 – 2/19	
John E. Gibby	Pfizer Summer Fellowship, 2002	Research Assist., Huntsman Institute
Jeremy L. Glass	REU Student Summer 2007	Chem. Ph.D. Student, UT Austin
Wenxing Guo	Fall 2011	Chem. Ph.D. Student, U of UT
Judah L. Evangelista	5/14 – 5/16	BCP Ph.D. Student, U of UT
Alisa Groom	Summer 2016	
Sebastian Herbrich	Spring 2007	
Nicholas Howland	Spring 2005	
Monica Iskandar	REU Student Summer 2003	Clinical Pharmacist, Molina Healthcare
Michael Johnson	9/13 – 5/16	
Christoph Karpe	Spring 2014	
Jonathon Kephart	REU Student Summer 2015	Chem. Ph.D. Student, U Washington
Virginia Kincaid	REU Student Summer 2008	
Mario Kock	Spring 2014	
Vy Lake	Summer 2012	Humanitarian Development Coordinator, Globus Relief
Shantel Leithead	1/13 – 5/15	Chem. Ph.D. Student, U of MI
Joseph Lovelace	Summer 2015	
Daniel Loveridge	Fall 2001	
Michael T. Maczka	Spring 2010	
Sarah Marshall	8/17 – 2/20	Law Student, Cornell University
Kim Nelson	Summer 2002	
Julia Y. Nippe	Spring 2014	
Nils Poth	Spring 2009	
Simon Prescher	Fall 2009	

Bryce Pulver	9/13 – 5/16	
Tobias Schnabel	Fall 2010	
Daylan Sheppard	Fall 2015	Chem. Ph.D. Student, Northwestern
Kristina Simon	Fall 2005	
Matthew Snyder	Summer 2005	
Daniel J. Tindall	Fall 2012	
Hoa-Lan Vo	REU Student Summer 2009	Scientist at Dyno Nobel
Marshall Ward	5/08 – 12/08	Medical Student, Dartmouth
Kai Welke	Fall 2007	
Kelly M. Wiggins	REU Student Summer 2007	Postdoc; UIUC

PROFESSIONAL SERVICE AND AFFILIATIONS

Referee for *NSF*, *PRF*, *DOE*, *Journal of the American Chemical Society*, *Angew Chemie International Edition*, *Nature*, *Organometallics*, *Journal of Organic Chemistry*, *Journal of Organometallic Chemistry*, *Organic Letters*, *Inorganic Chemistry*, *Macromolecules*, *Synlett*, *Synthesis*, *ACS Catalysis*, *Tetrahedron*, *Tetrahedron Letters*.

University of Utah, Chemistry Department

Associate Chair for Academic Affairs (2016-2017)

Graduate Admissions Committee (Chair, Inorganic Division, Organic Division, Recruiting Chair)

Undergraduate Education Committee

Organic Seminar Committee

Graduate Education Committee

Interdisciplinary Hiring Committee

Graduate Recruiting Committee

Safety Committee Chair

University of Utah

Interim Science Research Initiative (SRI) Director (2019-present)

Associate Dean for Academic/Student Affairs, College of Science (2017- present)

Academic Senate (2006-2009, 2014-2016)

College of Science Council (2006-2009, 2014-2016)

Funding Initiative Seed Grant Program Committee (2016)

Diversity Learning Initiative Committee (2016)

American Chemical Society

American Chemical Society – Organic Division