TEXAS STATE VITA

I. ACADEMIC/PROFESSIONAL BACKGROUND

A. Name: Chang Ji Title: Associate Professor

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
Ph.D.	2001	Indiana University-Bloomington	Chemistry	Dissertation: "Electrochemical Reduction of Halogenated Aromatic Compounds"
M.S.	1996	Indiana State University	Chemistry	Thesis: "Measurement of Henry's Law Constants for Some Low Molecular Weight, Environmentally Important Aldehydes and Ketones"
B.S.	1992	St. John's University	Chemistry	

C. University Experience

Position	*University*	*Dates*
Associate Professor	Texas State University	2010-present
Assistant Professor	Texas State University	2004-2010
Associate Instructor	Indiana University-Bloomington	1997-2001
Teaching Assistant	Indiana State University	1993-1995

D. Relevant Professional Experience

Position	*Entity*	*Dates*
Visiting Scholar	Washington University in St. Louis	Spring 2021
Graduate Advisor	Texas State University	Fall 2018 - present
Visiting Professor	Fudan University, China	Fall 2011
NSERC Postdoctoral Fellow	University of Guelph, Canada	2002-2004

E. Other Professional Credentials (licensure, certification, etc.)

II. TEACHING

A. Teaching Honors and Awards:

Runner-Up for the Presidential Award for Excellence in Teaching (2009)
College Achievement Award for the Presidential Award for Excellence in Teaching (2015)

B. Courses Taught:

CHEM 1341 Texas State University General Chemistry I

CHEM 1342	Texas State University	General Chemistry II
CHEM 3410	Texas State University	Quantitative Analysis
CHEM 4231	Texas State University	Advanced Laboratory I
CHEM 4299	Texas State University	Undergraduate Research
CHEM 5110	Texas State University	Seminar in Chemistry
CHEM 5365	Texas State University	Chemical Analysis
CHEM 5399	Texas State University	Graduate Thesis
C315	Indiana University-Bloomington	Chemical Measurements Laboratory I
C317	Indiana University-Bloomington	Equilibria and Electrochemistry
C344	Indiana University-Bloomington	Organic Chemistry II Laboratory
CHEM 105L	Indiana State University	General Chemistry I Laboratory
CHEM 351L	Indiana State University	Organic Chemistry Laboratory I

C. Graduate Theses/Dissertations, Honors Theses, or Exit Committees (if supervisor, please indicate):

1. Graduate Theses/Dissertations, Honors Theses, or Exit Committees as Supervisor (include name, title, date of graduation)
   Drew C. Brown, “Nickel(II) Salen Complexes with an Alkanethiol Side Chain and Their Self-Assembly on Gold”, August 2012
   Michael L. Beebower, “Electrochemical Reduction of 1-Bromooctane Catalyzed by a Dicobalt Complex”, May 2010

2. Graduate Theses/Dissertations, Honors Theses, or Exit Committees as Committee Member (include name, title, date of graduation)
   Zachary G. Naymik, MSEC Ph.D.
   Alyssa G. Evans, “Measuring Concentrations and Types of Gas Products from Decomposition of Human Remains under Various Conditions using Mass Spectrometer”,
   William Pollack, “Exploring Solubility Limits in High-Entropy Oxides via Laser Annealing Synthesis”, August 2026
   Zachary Medcalf, “Anodic Cyclizations to Form Alkaloid Ring Systems and the Role of the Second Oxidation Step”, Washington University in St. Louis, Ph.D., May 2024
   Jesus Adame Solorio, “Ruthenium-Chromium Oxide Aerogels Oxygen Evolution Electrocatalysts: Structure, Activity and Stability”, MSEC Ph.D., December 2022
   Xu Wang, “Development of Novel Mass Spectrometric Methods for Detection and Quantitation of Biorelevant Analytes”, MSEC Ph.D., May 2021
   Marisa Snapp-Leo, “Synthesis and Characterization Of Novel Thiophene-Based Electroactive Polymers”, May 2019
   Jacob B. Frazer, “Impact of Processing Parameters on Conductive Polymer Electroactivity”, May 2018
   Tyler Nash, “2-D Transition Metal Cyanide Nanosheets as Precursor Material for an Ultra-Low Platinum Group Metal Catalyst”, MSEC Ph.D., May 2014
   Haoren Chen, “Biogenic Silica Nanoparticles Derived from Rice Husk Biomass and Their Applications”, MSEC Ph.D., December 2013
   Jamie R. Carberry, “Ionic Liquid Mobility in Electroactive Polymers”, August 2012
   Luzelva Estrada, “Evaluation of the Effect of Microbial Acid Attack on Concrete Bridges in Texas”, December 2011
   Pratap Rikka, “Spectrometric Identification of Naphthenic Acids Isolated from Crude Oil”, December 2007

Kevin L. Francis, "Characterization of Self-Assembled Monolayers for Use as a Matrix in Laser Desorption Ionization", August 2007

D. Courses Prepared and Curriculum Development:

- Created lab report rubrics for CHEM 4231
- Revised laboratory handouts for CHEM 3410
- Developed a special laboratory project in CHEM 3410: "Determination of Hardness in Water Samples from Laboratory, Household, and San Marcos River"
- Implemented oral presentations by students in CHEM 4231
- Developed three new experiments:
  "Determination of the Acid Content in Vinegar" in CHEM 3410
  "Relationship between the Peak Current and the Scan Rate in Cyclic Voltammetry" in CHEM 4231
  "Identification of $C_5H_{10}O$ Isomers Using Mass Spectrometry" in CHEM 4231
- Revised laboratory handouts for CHEM 4231
- Developed and maintained Blackboard and TRACS websites for CHEM 1341, 1342, 3410, 4231, and 5110
- Developed PowerPoint notes for CHEM 1341, 1342, and 3410

E. Funded External Teaching Grants and Contracts:

F. Submitted, but not Funded, External Teaching Grants and Contracts:

Title:	Facilitating Graduate Student Success through Mentoring, Cohort Identity, and Scholarships
Funding Agency:	NSF DUE S-STEM
Submission Date:	01/20/20
Type of Grant:	teaching
Role on Grant:	Senior Personnel
Amount of Grant:	$649,437
Status:	not funded

G. Funded Internal Teaching Grants and Contracts:

H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

I. Other:

1. Undergraduate Research Students Mentored in the Research Laboratory
   Asma Aly (Fall 2026 – present)
   Philip A. Holmes (Spring 2026 – present)
   Zoe John (Spring 2025 – Fall 2025)
   Justin T. Peavey (Fall 2024 – Spring 2025)
   Hannah Urofsky (Summer 2024 – Spring 2026)
   Victor Chidi (Spring 2024 – Spring 2026)
   Shayla D. Netterville (Spring 2024)
   Caroline R. Allen (Summer 2011– Spring 2012)
   Ann-Marie C. Arida (Summer 2006 – Summer 2007)
   Sumera Asif (Fall 2020)

Maria I. Barron-Gonzalez (REU student, Summer 2019)
Michael L. Beebower (Summer 2009 – Spring 2010)
Susanne M. Boisvert (Spring 2006 – Fall 2007)
Drew C. Brown (Spring & Summer 2008)
Zach P. Cain (Spring 2017)
Katie, E. D'Alfonso (Fall 2023)
Grant L. Davis (Summer 2013)
Shannon E. Day (Fall 2006 – Spring 2008)
Jeffrey L. Dean (Fall 2007 – Summer 2008)
Brandon A. Delgado (Fall 2018 – Spring 2019)
Mikaela E. Enters (Fall 2015 – Spring 2016)
Emily M. Evans (Spring 2005 – Spring 2006)
Rebecca A. Flores (Fall 2007 – Spring 2008)
John R. Garcia (Fall 2008 – Spring 2009)
Julie A. Hatcher (Fall 2007)
Jonathan M. Hernandez (Fall 2010)
Michelle E. Hentz (Summer 2009 – Fall 2009)
Austin R. Kelcher (Spring 2017 – Summer 2018)
William J. Kramer (Summer 2014)
Joshua Kennedy (Fall 2013 – Spring 2014)
Clayton L. Lambert (REU student, Summer 2014)
Peyton B. Lawrence (Fall 2019 – Spring 2020)
Wilbert X. Lopez (Fall 2008 – Summer 2009)
Nathan C. McCormick (Fall 2013 – Fall 2014)
Heather McKenzie (Summer 2007)
Ezequiel Montes (Spring 2020)
Minh-Anh N. Nguyen (Summer 2012 – Spring 2014)
Minh C. Nguyen (Fall 2023 – Spring 2024)
Summer Nerkowski (Fall 2023)
Tiffany A. Nordstrom (Spring 2016)
Jaemyeong Oh (Fall 2020 -Fall 2021)
Nina E. Ojeda (Summer 2013 – Spring 2014)
Jacob A. Olivares (Fall 2018 – Spring 2019)
Megan K. O'Neal (Spring 2020 – Fall 2020)
Stephanie A. Ortega (Summer 2007)
Kim L. Phan (Spring 2015)
William Pollack (Fall 2023 – Spring 2024)
Jessica L. Potts (Fall 2010 – Spring 2011)
John T. Prator (Spring 2017 – Fall 2017)
Essence G. Redd (REU student, Summer 2021)
Catelyn R. Roberson (Fall 2014 – Spring 2015)
Cristina M. Rodriguez (Fall 2020)
Adrian R. Rosas (Fall 2012 – Spring 2013)
William C. Silvers (Spring 2006 – Spring 2007)
Tamir Simon (Summer 2018 – Spring 2019)
Cassandra M. Speshock (Fall 2021)
Brisco A. Swisher (Fall 2022 – Spring 2023)
Ragene A. Thornton (Fall 2016 – Spring 2017)
Maria E. Tomasso (Summer 2012)

Loan N. Tran (Spring 2014 – Fall 2014)
Elise G. Valdez (REU student, Summer 2023)
Antonio Vasquez (REU student, Summer 2018)
Jonathan D. Velasco (Fall 2013 – Summer 2014)

III. SCHOLARLY/CREATIVE (* corresponding author, † graduate student under supervision, ‡ undergraduate student under supervision)

A. Works in Print (including works accepted, forthcoming, in press)

1. Books (if not refereed, please indicate)

a. Scholarly Monographs:

b. Textbooks:

c. Edited Books:

d. Chapters in Books:

e. Creative Books:

2. Articles

a. Refereed Journal Articles:

1. Gurav, R.; Ji, C.; Hwang, S. Investigating the Potential of River Sediment Bacteria for Trichloroethylene Bioremediation. *Water* **2024**, *16*, 2941. https://doi.org/10.3390/w16202941
2. Medcalf, Z.; Redd, E. G.‡; Oh, J.‡; Ji, C.*; Moeller, K. D.* Anodic Cyclizations and Umpolung Reactions Involving Imines. *Org. Lett.* **2023**, *25*, 4135-4139. https://doi.org/10.1021/acs.orglett.3c01399
3. Simon, T.‡; Vasquez, A.‡; Kelcher, A. R.‡; Olivares, J. A.‡; Ji. C.* The Role of Oxygen in the Electrochemical Reduction of Ethyl 2-(2-(Bromomethyl)phenoxy)acetate at Carbon Cathodes in Dimethylformamide. *J. Electrochem. Soc.* **2020**, *167(4)*, 045502.
4. Rigby, J.; Hagan, A.; Kelcher, A.‡; Ji, C. The Comparison between Two Different Ultrasound Frequencies on Dexamethasone Sodium Phosphate Penetration during Phonophoresis. *J. Athl. Train.* **2020**, *55*, 628-635.
5. Feng, S.; Li, Y.; Liu, H.; Huang, J.; Ji, C.; Qiao, L.; Liu, B.; Ji, J. Mesoporous Silica for Triphase Nucleophilic Substitution Reactions. *Chimia* **2018**, *72*, 514-517.
6. Lambert, C. L.‡; Enters, M. E.‡; Rastogi, S. K.; Brown, C. T.; Shoulders, B. A.; Brittain, W. J.; Ji, C.* Reaction Mechanism for the Formation of Dialkylated Nickel(II) Salen Involved in the Catalytic Reduction of (Bromomethyl)cyclopropane. *J. Electrochem. Soc.* **2016**, *163(14)*, G206-G210.
7. Nguyen, M. N.‡; Tomasso, M. E.‡; Easter, D. C.; Ji, C.* Reaction of Electrogenerated Ligand-Reduced Nickel Salen with Benzyl Bromide, 1-Bromomethylnaphthalene, and α-Bromodiphenylmethane: A Study of Steric Effects. *J. Electrochem. Soc.* **2016**, *163(2)*, G1-G6.

8. Li, Y.[†]; Zhang, K.; Zhao, J.; Ji, J.; Ji, C.; Liu, B. A Three-Dimensional Silver Nanoparticles Decorated Plasmonic Paper Strip for SERS Detection of Low-Abundance Molecules. *Talanta* **2016**, *147*, 493-500. (available online 10/21/2015)

9. Nguyen, M. N.[‡]; Tomasso, M. E.[‡]; Ji, C.* Steric Effects in the Reaction of Electrogenerated Ligand-Reduced Nickel Salen with Organic Halides. *ECS Trans*. **2014**, *61(30)*, 25-35.

10. Xiao, J.[†]; Bian, X.[†]; Liao, L.[†]; Zhang, S.; Ji, C.; Liu, B. Nitrogen-Doped Mesoporous Graphene as a Synergistic Electrocatalyst Matrix for High-Performance Oxygen Reduction Reaction. *ACS Appl*. *Mater*. *Interfaces* **2014**, *6*, 17654-17660.

11. Bian, X. J.[†]; Qian, K.; Liao, L.[†]; Zhou, X. F.; Guo, K.; Huang, X. D.; Yu, C. Z.; Ji, C.*; Liu, B. H.* Platinum Nanoparticles Supported on Hierarchical Carbon Foams for Electrocatalytic Oxidation of Methanol. *ECS Electrochem*. *Lett*., **2014**, *3(3)*, F11-F14.

12. Brown, D. K.[†]; Ji, C.* An Initial Study of Coating Nickel Salen on Gold Electrode via Self-Assembly. *ECS Trans*. **2013**, *53(25)*, 1-10.

13. Allen, C. R.[‡]; Brown, D. K.[†]; Potts, J. L.[‡]; Ji, C.* Electrochemical Reduction of Methyl 2-Bromomethylbenzoate at Carbon Cathodes in Dimethylformamide Containing Water. *J*. *Electrochem*. *Soc*. **2013**, *160(7)*, G3069-G3072. (Invited Paper)

14. Zhu, J.[†]; Liao, L.[†]; Zhang, P.; Guo, K.; Kong, J.; Ji, C.; Liu, B. Size Dependent Cellular Uptake Efficiency, Mechanism, and Cytotoxicity of Silica Nanoparticles toward HeLa Cells. *Talanta* **2013**, *107*, 408-415.

15. Allen, C. R.[‡]; Brown, D. K.[†]; Potts, J. L.[‡]; Ji, C.* Effect of Water on the Electrochemical Reduction of Methyl 2-Bromomethylbenzoate at Carbon Cathodes in Dimethylformamide. *ECS Trans*. **2013**, *45(30)*, 15-22.

16. Bian, X.[†]; Guo, K.; Liao, L.[†]; Xiao, J.; Kong, J.; Ji, C.; Liu, B. Nanocomposites of Palladium Nanoparticle-Loaded Mesoporous Carbon Nanospheres for the Electrochemical Determination of Hydrogen Peroxide. *Talanta* **2012**, *99*, 256-261.

17. Bian, X.[†]; Zhu, J.; Liao, L.[†]; Scanlon, M. D.; Ge, P.; Ji, C.; Girault, H. H.; Liu, B. Nanocomposite of MoS_2 on Ordered Mesoporous Carbon Nanospheres: a Highly Active Catalyst for Electrochemical Hydrogen Evolution. *Electrochem*. *Commun*. **2012**, *22*, 128-132.

18. Ji, J.[†]; Gan, J.[†]; Kong, J.; Yang, P.; Liu, B.; Ji, C. Electrochemical Detection of the Activities of Thrombin and Its Inhibitor. *Electrochem*. *Commun*. **2012**, *16*, 53-56.

19. Ji, J.[†]; Zhao, Y.; Guo, L.; Liu, B.; Ji, C.; Yang, P. Interfacial Organic Synthesis in a Simple Droplet-Based Microfluidic System. *Lab Chip* **2012**, *12*, 1373-1377.

20. Zhang, Y.; Ji, C. Electro-Induced Covalent Cross-Linking of Chitosan and Formation of Chitosan Hydrogel Films: Its Application as an Enzyme Immobilization Matrix for Use in a Phenol Sensor. *Anal*. *Chem*. **2010**, *82*, 5275-5281.

21. Lewis, L. K.; Robson, M. H.; Vecherkina, Y.; Ji, C.; Beall, G. W. Interference with Spectrophotometric Analysis of Nucleic Acids and Proteins by Leaching of Chemicals from Plastic Tubes. *BioTechniques* **2010**, *48(4)*, 297-302.

22. Ji, C.*; Dean, J. L.[‡]; Flores, R. A.[‡]; Boisvert, S. M.[‡] Quantitative Determination of Co-Eluting Compounds by Using Extract Ion Chromatogram in GC–MS. *Chem*. *Educator* **2009**, *14*, 212-218.

23. Brown, D. K.[‡]; Dean, J. L.[‡]; Lopez, W. X.[‡]; Ji, C.* Electrochemical Reduction of Cinnamyl Bromide at Carbon Cathodes in Acetonitrile: A Further Mechanistic Study. *J*. *Electrochem*. *Soc*. **2009**, *156*, F123-F127.

24. Ji, C.*; Day, S. E.[‡]; Silvers, W. C.[‡] Catalytic Reduction of 1- and 2-Bromooctanes by a Dinickel(I) Schiff Base Complex Containing Two Salen Units Electrogenerated at Carbon Cathodes in Dimethylformamide. *J*. *Electroanal*. *Chem*. **2008**, *622*, 15-21.

25. Massingill, J. L., Jr.; Patel, P. N.; Guntupalli, M.; Garret, C.; Ji, C. High Efficiency Nondispersive Reactor for Two-Phase Reactions. *Org. Process Res. Dev.* **2008**, *12*, 771-777.
26. Ji, C.*; Boisvert, S. M.‡; Arida, A. C.‡; Day, S. E.‡ Measurement of Henry's Law Constants Using Internal Standards: A Quantitative GC Experiment for the Instrumental Analysis or Environmental Chemistry Laboratory. *J. Chem. Educ.* **2008**, *85*, 969-971.
27. Ji, C.*; Day, S. E.‡; Ortega, S. A.‡; Beall, G. W. Henry's Law Constants of Some Aromatic Aldehydes and Ketones Measured by an Internal Standard Method. *J. Chem. Eng. Data* **2008**, *53*, 1093-1097.
28. Ji, C.*; Evans, E. M.‡ Using an Internal Standard Method to Determine Henry's Law Constants. *Environ. Toxicol. Chem.* **2007**, *26*, 231-236.
29. Ji, C.; Ahmida, M.; Chahma, M.; Houmam, A. Radical/Ion Pair Formation in the Electrochemical Reduction of Arene Sulfenyl Chlorides. *J. Am. Chem. Soc.* **2006**, *128*, 15423-15431.
30. Ji, C.; Peters, D. G. A Multistep Synthesis for an Advanced Undergraduate Organic Chemistry Laboratory. *J. Chem. Educ.* **2006**, *83*, 290-291.
31. Ji, C.; Goddard, J. D.; Houmam, A. The Role of Nonbonded Sulfur**-**Oxygen Interaction in the Dissociative Electron Transfer to Nitro-Substituted Arenesulfenyl Chlorides. *J. Am. Chem. Soc.* **2004**, *126*, 8076-8077.
32. Ji, C.; Peters, D. G.; Karty, J. A.; Reilly, J. P.; Mubarak, M. S. Direct and Cobalt(I) Salen-Catalyzed Reduction of 2,6-Bis(chloromethyl)pyridine at Carbon Cathodes in Acetonitrile. *J. Electroanal. Chem.* **2001**, *516*, 50-58.
33. Ji, C.; Peters, D. G. Electrochemical Reduction of Benzyl Iodide, Benzal Bromide, and Benzal Chlorobromide in the Presence of Nitric Oxide at Carbon Cathodes in Acetonitrile. *J. Electroanal. Chem.* **2001**, *516*, 39-49.
34. Ji, C.; Peters, D. G. Synthesis of 5-(ω-Sulfhydrylalkyl)salicylaldehydes as Precursors for the Preparation of Alkanethiol-Modified Metal Salens. *Tetrahedron Lett.* **2001**, *42*, 6065-6067.
35. Ji, C.; Peters, D. G.; Davidson, E. R. Electrochemical Reduction of Halogenated Pyrimidines at Mercury Cathodes in Acetonitrile. *J. Electroanal. Chem.* **2001**, *500*, 3-11.
36. Ji, C.; Peters, D. G. Electrochemical Reduction of 2-Bromothiazole at Carbon Cathodes in Acetonitrile. *J. Electroanal. Chem.* **1998**, *455*, 147-152.

b. Non-refereed Articles:

3. Conference Proceedings

a. Refereed Conference Proceedings:

1. Peters, D. G.; Ji, C.; Wozniak, B. J.; Vanalabhpatana, P. Reduction of Alkyl Halides by Electrogenerated Cobalt(I) Salen and Nickel(I) Salen: Reactions of Alkyl Radicals with NO and O_2. *Proceedings-Electrochemical Society* **2002**, *2002-10* (Organic Electrochemistry), 100-103.
2. Ji, C.; Mubarak, M. S.; Peters, D. G.; Karty, J. A.; Reilly, J. P. Direct and Catalytic Reduction of 2,6-Bis(chloromethyl)pyridine at Carbon Cathodes in Acetonitrile. *Proceedings-Electrochemical Society* **2001**, *2001-14* (Reactive Intermediates in Organic and Biological Electrochemistry), 85-88.

b. Non-refereed:

4. Abstracts:

1. Ji, C.; Evans, E. M.‡ Determination of Henry's Law Constants by an Internal Standard Method. *Preprints of Extended Abstracts*, 232nd ACS National Meeting, San Francisco, CA, September 2006; American Chemical Society, Division of Environmental Chemistry, **2006**, *46(2)*, 965-974.

5. Reports:

6. Book Reviews:

7. Other Works in Print:

B. Works not in Print

1. Papers Presented at Professional Meetings:
   1. "Exploring the Synergistic Relationship between Organic Synthesis and Electrochemistry", Kevin D. Moeller, Enqi Feng, Chang Ji, Qiwei Jing and Zachary Medcalf, presented at the 241st Electrochemical Society Meeting, Vancouver, Canada, May 2022.
   2. "Electrochemical Reduction of Ethyl 2-(2-(Bromomethyl)phenoxy)acetate at Carbon Cathodes in DMF Affected by the Presence of Oxygen", Tamir Simon, Antonio Vasquez, Austin Kelcher, Jacob Olivares, and Chang Ji, presented at the 237th Electrochemical Society Meeting, Montreal, Canada, May 2020.
   3. "Electrochemical Reduction of Ethyl 2-Bromomethylphenyl Carbonate in DMF", Maria I. Barron-Gonzalez and Chang Ji, presented at 2nd Annual Summer Undergraduate Research Symposium, San Marcos, Texas, August 2019.
   4. "Formation of Heterocyclic Compounds by Electrochemically Induced Intramolecular Cyclization", Antonio Vasquez and Chang Ji, presented at the 257th ACS National Meeting, Orlando, Florida, April 2019.
   5. "Mechanistic Studies for the Formation of Dialkylated Nickel(II) Salen Involved in the Catalytic Reduction of (Bromomethyl)Cyclopropane," Clayton L. Lambert, Mikaela E. Enters, Shiva K. Rastogi, Christopher T. Brown, Ben A. Shoulders, William J. Brittain, and Chang Ji, presented at the 231rd Electrochemical Society Meeting, New Orleans, Louisiana, May 2017.
   6. "Steric Effects in the Reaction of Electrogenerated Ligand-Reduced Nickel Salen with Organic Halides," Minh-Anh Nguyen‡, Maria E. Tomasso‡, and Chang Ji, presented at the 225th Electrochemical Society Meeting, Orlando, Florida, May 2014.
   7. "An Initial Study of Coating Nickel Salen on Gold Electrode via Self-Assembly," Drew K. Brown† and Chang Ji, presented at the 223rd Electrochemical Society Meeting, Toronto, Ontario, Canada, May 2013.
   8. "Effect of Water on the Electrochemical Reduction of Methyl 2-Bromomethylbenzoate at Carbon Cathodes in Dimethyformamide," Caroline R. Allen‡, Drew K. Brown†, Jessica L. Potts‡, and Chang Ji, presented at the 221st Electrochemical Society Meeting, Seattle, Washington, May 2012.
   9. "Electrochemical Reduction of Organobromides Catalyzed by a Dicobalt Complex," Michael L. Beebower‡ and Chang Ji, presented at the 239th ACS National Meeting, San Francisco, California, March 2010.
   10. "Electrochemical Reduction of Cinnamyl Bromide at Carbon Cathodes in Acetonitrile," Drew K. Brown‡, Jeffrey L. Dean‡, and Chang Ji, presented at the 215th Electrochemical Society Meeting, San Francisco, California, May 2009.

11. "Electrochemical Study of a Dinickel Schiff Base Complex Containing Two Salen Units," Chang Ji and Shannon E. Day‡, presented at the 213rd Electrochemical Society Meeting, Phoenix, Arizona, May 2008.
12. "Determination of Henry's Law Constants by an Internal Standard Method," Chang Ji and Emily M. Evans‡, presented at the 232nd ACS National Meeting, San Francisco, California, September 2006.
13. "Reduction of Alkyl Halides by Electrogenerated Cobalt(I) Salen and Nickel(I) Salen: Reactions of Alkyl Radicals with NO and O_2," Dennis G. Peters, Chang Ji, and Parichatr Vanalabhpatana, presented at the 201st Electrochemical Society Meeting, Philadelphia, Pennsylvania, May 2002.
14. "Electrochemical Reduction of 2,6-Bis(chloromethyl)pyridine at Carbon Cathodes," Chang Ji and Dennis G. Peters, presented at the 199th Electrochemical Society Meeting, Washington D.C., March 2001.
15. "Fates of Electrogenerated Radicals in the Presence of Nitric Oxide," Chang Ji and Dennis G. Peters, presented at Pacifichem'2000, Honolulu, Hawaii, December 2000.
16. "Electrochemical Reduction of Halogenated Pyrimidines at Mercury Cathodes," Chang Ji and Dennis G. Peters, presented at the 193rd Electrochemical Society Meeting, Seattle, Washington, May 1999.

2. Invited Talks, Lectures, and Presentations:
   1. "Mechanism for the Formation of Dialkylated Nickel(II) Salen in the Catalytic Reduction of Organic Halides", Duke University, Durham, NC, May 2018.
   2. "Electrochemical Sensors Fabricated by Different Surface Modification Methods", Texas State University, San Marcos, TX, November 2012.
   3. "The Tenure System in American Universities and Its Impact on Scientific Research", Fudan University, Shanghai, P. R. China, December, 2009.
   4. "Electrochemical Reduction of Some Halogenated Aromatic Compounds: Radical or Carbanion Intermediates?", Villanova University, Villanova, PA, November 2003.

3. Consultancies:

4. Workshops:
   1. Graduate Student Recruitment Workshop: Web Pages and Initial Outreach, Fall 2022.
   2. Lab Safety and Compliance with the OSHA Lab Standard, Texas State University, Fall 2017.
   3. Effective Faculty Hiring, Texas State University, Fall 2014.
   4. Infusing Sustainability in Curriculum, Texas State University-San Marcos, Summer 2010.
   5. Program for Excellence in Teaching and Learning, Texas State University-San Marcos, Fall 2004 – Spring 2005.

5. Other Works not in Print:

   a. Works "submitted" or "under review"

   b. Works " in progress"

   c. Other works not in print

1. "Synthesis of Chiral Aldehydes for Application in Electrochemical Cyclization to Produce Amino Acid Derivatives", Hannah Urofsky and Chang Ji, Women in Catalysis and Synthesis (WCSC) Symposium, Austin, Texas, November 2025.
2. "Organic Synthesis of Chiral Aldehydes as Building Blocks for Making Cyclic Amino Acid Derivatives via Electrochemical Oxidation", Hannah Urofsky and Chang Ji, R.I.C.E. Poster Showcase, San Marcos, Texas, July 2025.
3. "Isolated Aerobic Soil Bacteria Grown with TCE as the Sole Substrate", Joseph Ball, Ranjit Gurav, Chang Ji, Manish Kumar, In-Hyouk Song, and Sangchul Hwang, Waste Management Symposia, Phoenix, Arizona, March 2024.
4. "Trichloroethylene (TCE) Bioremediation with Newly Isolated Microbes from a Local River Sediment", Ranjit Gurav, Chang Ji, In-Hyouk Song, and Sangchul Hwang, Waste Management Symposia, Phoenix, Arizona, March 2024.
5. "Treatment Train of TCE Adsorptive and Oxidative Remediation", Eunice Babatunde, Ranjit Gurav, Chang Ji, In-Hyouk Song, and Sangchul Hwang, Waste Management Symposia, Phoenix, Arizona, March 2024.
6. "Biodegradation of Trichloroethylene (TCE) using Sediment Microbes and Impact of Climate Change on Microbial Degradation Performance", Joseph Ball, Ranjit Gurav, Chang Ji, Manish Kumar, In-Hyouk Song, and Sangchul Hwang, DOE TXST Symposium, 2023.
7. "Synthesis of Chiral Aldehydes as the Precursors for Making Cyclic Amino Acid Derivatives", Elise G. Valdez and Chang Ji, CheMIE REU, 2023.
8. "Synthesis of Chiral Cyclic Amino Acid Derivatives", Chang Ji and Kevin D. Moeller, NSF Center for Synthetic Organic Electrochemistry, University of Utah, June 2022.
9. "The Intramolecular Cyclization of *N*-(2-Napthalenylmethylene)-4-(1,3-dithian-2-ylidene)-1-pentamine by Anodic Oxidation", Essence G. Redd and Chang Ji, CheMIE REU, 2021.
10. "Anodic Cyclization Reactions: The Importance of the Second Oxidation Step", Zach Medcalf, Chang Ji, and Kevin D. Moeller, NSF Center for Synthetic Organic Electrochemistry, University of Utah, 2021.
11. "Formation of Heterocyclic Compounds by Electrochemically Induced Intramolecular Cyclization", Antonio Vasquez and Chang Ji, CheMIE REU, 2018.
12. "Mechanistic Study for the Deactivation of Nickel Salen in the Catalytic Reduction of Organic Halides", Clayton L. Lambert and Chang Ji, REU Poster, 2014.

C. Grants and Contracts

1. Funded External Grants and Contracts:

Title:	Specialized Materials Testing
Funding Agency:	X-Bow Launch Systems
Submission Date:	2026
Type of Grant:	research
Role on Grant:	Co-PI
Names of PI or Co-PI(s):	PI: Sean Kerwin; Co-PI: Bill Brittain, Ryan Peterson
Amount of Grant:	$25,000
Direct Funds:	$0

Title:	Climate Impact on Resiliency and Safety of In-Situ Remediation for Recalcitrant Contaminants
Funding Agency:	DOE-EM-MSIPP

Submission Date: 01/01/24-01/30/25
Type of Grant: research
Role on Grant: Co-PI
Names of PI or Co-PI(s): PI: Sangchul Hwang; Co-PI: In-Hyouk Song, Sujata Mandal
Amount of Grant: $350,000
Direct Funds: $36,000

Title: Sustainable, Safe, and Climate Resilient Remediation Site Operations
Funding Agency: DOE-EM-MSIPP
Submission Date: 05/01/23-04/30/24
Type of Grant: research
Role on Grant: Co-PI
Names of PI or Co-PI(s): PI: Sangchul Hwang; Co-PI: In-Hyouk Song, Camila Carlos-Shanley
Amount of Grant: $319,856
Direct Funds: $26,207

Title: Acquisition of a Scanning Electron Microscope with e-Beam Lithographic Capability
Funding Agency: NSF-MRI
Duration of Grant: 08/15/09-08/14/12
Type of Grant: Instrument
Role on Grant: Co-PI
Names of PI or Co-PI(s): Nikoleta Theodoropoulou
Total Funds Awarded: $489,707
Direct Funds Received: $0

Title: Electrochemical Reduction of Substituted Allyl Halides in the Presence of Nitric Oxide
Funding Agency: ACS PRF SUMR
Duration of Grant: 05/15/09-08/15/09
Type of Grant: Research
Role on Grant: PI
Names of PI or Co-PI(s): John Garcia (student)
Total Funds Awarded: $5,000
Direct Funds Received: $0

Title: Synthesis of Thionitrites Using Electrogenerated Cobalt(I) Salen as the Mediator
Funding Agency: ACS PRF SUMR
Duration of Grant: 05/15/08-08/15/08
Type of Grant: Research
Role on Grant: PI
Names of PI or Co-PI(s): Jeffrey Dean (student)
Total Funds Awarded: $5,000
Direct Funds Received: $5,000

Title:	Synthesis of Thionitrites by Using Electrogenerated Cobalt(I) Salen as the Mediator
Funding Agency:	ACS PRF
Duration of Grant:	09/01/06-08/31/09
Type of Grant:	Research
Role on Grant:	PI
Names of PI or Co-PI(s):	
Total Funds Awarded:	$35,000
Direct Funds Received:	$35,000

2. Submitted, but not Funded, External Grants and Contracts:

Title:	Radical Cross-Coupling Reactions Induced Electrochemically by Dicobalt Complexes
Funding Agency:	ACS PRF
Submission Date:	09/01/20
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$70,000
Status:	not funded

Title:	Study of Cross Coupling Reactions Initiated Electrochemically by Dicobalt Schiff Base Complexes
Funding Agency:	ACS PRF
Submission Date:	09/01/18
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$70,000
Status:	not funded

Title:	Using Dicobalt Catalysts for Electrochemically Induced Cross-Coupling Reactions
Funding Agency:	Welch
Submission Date:	06/01/17
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$195,000
Status:	not funded

Title:	Radical Coupling Reactions Initiated Electrochemically by Dicobalt Schiff Base Complexes
Funding Agency:	ACS PRF
Submission Date:	02/01/17
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$70,000
Status:	not funded

Title:	Mechanistic Studies of Radical Coupling Reactions Initiated by Electrogenerated Dicobalt(I) Schiff Base Complexes
Funding Agency:	ACS PRF
Submission Date:	09/01/15
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$70,000
Status:	not funded

Title:	Reduction of Organic Halides by Electrogenerated Dicobalt(I) Schiff Base Complexes: A Study of Radical Coupling Reactions
Funding Agency:	ACS PRF
Submission Date:	09/01/13
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$65,000
Status:	not funded

Title:	Immobilization of Metal Salen Catalysts on Gold Electrode for the Detection of Residual Drugs
Funding Agency:	STCSM
Submission Date:	05/01/13
Type of Grant:	research
Role on Grant:	TxState co-PI
Amount of Grant:	$8,000
Status:	not funded

Title:	Using Electrogenerated Dicobalt(I) Schiff Base Complexes as the Mediators for Radical Coupling Reactions
Funding Agency:	ACS PRF
Submission Date:	09/01/12
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$65,000
Status:	not funded

Title:	High Voltage Gel Electrophoresis of Nucleic Acids Using Low Conductivity Media
Funding Agency:	NSF CBET
Submission Date:	09/01/11
Type of Grant:	research
Role on Grant:	co-PI
Amount of Grant:	$302,715
Status:	not funded

Title:	Electrochemical Study of Gold Nanoparticles Functionalized with Metal Salens

Funding Agency: Welch
Submission Date: 06/01/11
Type of Grant: research
Role on Grant: PI
Amount of Grant: $100,000
Status: not funded

Title: Radical Coupling Induced by Electrogenerated Dicobalt(I) Schiff Base Complexes
Funding Agency: ACS PRF
Submission Date: 09/01/11
Type of Grant: research
Role on Grant: PI
Amount of Grant: $65,000
Status: not funded

Title: Study of Radical Coupling Induced by Dicobalt(I) Schiff Base Catalysts
Funding Agency: Welch
Submission Date: 06/01/10
Type of Grant: research
Role on Grant: PI
Amount of Grant: $100,000
Status: not funded

Title: Electrochemical Study of Gold Nanoparticles and Gold Electrodes Surface-Functionalized with Metal Salens
Funding Agency: NSF CAREER
Submission Date: 06/01/10
Type of Grant: research
Role on Grant: PI
Amount of Grant: $400,000
Status: not funded

Title: Study of Radical Coupling Induced by Electrogenerated Novel Dicobalt(I) Schiff Base Complexes
Funding Agency: Dreyfus Foundation
Submission Date: 01/01/10
Type of Grant: research
Role on Grant: PI
Amount of Grant: $60,000
Status: not funded

Title: Radical Coupling Initiated by Electrogenerated Dicobalt(I) Schiff Base Complexes
Funding Agency: Welch
Submission Date: 06/01/09
Type of Grant: research
Role on Grant: PI

Amount of Grant:	$150,000
Status:	not funded
Title:	Electrochemical Study of Gold Nanoparticles and Electrodes Functionalized with Metal Salens
Funding Agency:	NSF ICC
Submission Date:	09/01/09
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$200,000
Status:	not funded
Title:	Electrochemical Reduction of Organic Halides by Novel Dicobalt Schiff Base Complexes
Funding Agency:	Welch
Submission Date:	06/01/08
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$150,000
Status:	not funded
Title:	Schiff Base Modified Nanocarbon Electrodes for Analysis of Sulfhydryls
Funding Agency:	ARP
Submission Date:	06/01/08
Type of Grant:	research
Role on Grant:	TxState co-PI
Amount of Grant:	$90,000
Status:	not funded
Title:	Electrochemical Study of Gold Nanoparticles Functionalized with Metal Salens
Funding Agency:	ARP
Submission Date:	06/01/08
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$100,000
Status:	not funded
Title:	Study of Radical Coupling Induced by Novel Dicobalt Schiff Base Complexes (re-submission)
Funding Agency:	Research Corporation CCRA
Submission Date:	05/01/08
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$34,494
Status:	not funded
Title:	Synthesis and Electrochemical Study of Gold Nanoparticles

	Functionalized with Metal Salens
Funding Agency:	Welch
Submission Date:	06/01/07
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$150,000
Status:	not funded

Title:	Study of Radical Coupling Induced by Novel Dicobalt Schiff Base Complexes
Funding Agency:	Research Corporation CCRA
Submission Date:	05/01/07
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$35,383
Status:	not funded

Title:	Insertion of Nitric Oxide into Organic Halides with the Aid of Electrogenerated Cobalt(I) Salen
Funding Agency:	ARP
Submission Date:	06/01/06
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$99,945
Status:	not funded

Title:	Gold Nanoparticles and Gold Electrodes Functionalized with Metal Salens
Funding Agency:	Welch
Submission Date:	06/01/06
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$150,000
Status:	not funded

Title:	Study of Gold Nanoparticles and Electrodes Functionalized with Metal Salens
Funding Agency:	NSF RUI
Submission Date:	09/01/06
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$324,243
Status:	not funded

Title:	Study of Organocobalt(III) Salen and Salophen Intermediates by UV-Vis Spectrometry
Funding Agency:	Research Corporation CCRA
Submission Date:	05/01/06
Type of Grant:	research

Role on Grant:	PI
Amount of Grant:	$34,667
Status:	not funded

Title:	Synthesis of Thionitrites by Using Electrogenerated Cobalt(I) Salen as the Mediator
Funding Agency:	ACS PRF
Submission Date:	09/01/05
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$35,000
Status:	not funded

Title:	Gold Nanoparticles and Gold Electrodes Functionalized with Metal Salens
Funding Agency:	Welch
Submission Date:	06/01/05
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$150,000
Status:	not funded

3. Funded Internal Grants and Contracts:

Title:	Synthesis of Chiral Cyclic Amino Acid Derivatives by an Efficient Electrochemical Method
Funding Agency:	REP
Duration of Grant:	01/01/24-08/31/25
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$8,000
Direct Funds Received:	$8,000

Title:	The Role of Therapeutic Ultrasound Frequency in Maximizing an Anti-Inflammatory Drug Transdermal Delivery
Funding Agency:	REP
Duration of Grant:	01/01/17-12/31/17
Type of Grant:	research
Role on Grant:	Co-PI
Amount of Grant:	$16,000
Direct Funds Received:	$8,000

Title:	Immobilization and Polymerization of Alkanethiol-Modified Cobalt(II) Salophen on Gold Electrode for the Development of A Robust Multi-Purpose Chemical Sensor
Funding Agency:	REP
Duration of Grant:	02/01/12-01/31/13
Type of Grant:	Research

Role on Grant: PI
Names of PI or Co-PI(s):
Total Funds Awarded: $8,000
Direct Funds Received: $8,000

Title: Synthesis of 1,4-Butanediol by Reductive Coupling of Ethylene Halohydrins Using a Novel Dicobalt Complex
Funding Agency: REP
Duration of Grant: 02/01/06-01/31/07
Type of Grant: Research
Role on Grant: PI
Names of PI or Co-PI(s):
Total Funds Awarded: $8,000
Direct Funds Received: $8,000

Title: Determination of Henry's Law Constants for PCDD
Funding Agency: REP
Duration of Grant: 02/15/05-02/14/06
Type of Grant: Research
Role on Grant: PI
Names of PI or Co-PI(s):
Total Funds Awarded: $5,600
Direct Funds Received: $5,600

4. Submitted, but not Funded, Internal Grants and Contracts:

Title: Electrochemical Synthesis of Chiral Cyclic Amino Acid Derivatives
Funding Agency: REP
Submission Date: 01/01/23
Type of Grant: research
Role on Grant: PI
Amount of Grant: $8,000
Status: not funded

Title: Electrochemical Synthesis of Chiral Cyclic Amino Acid Derivatives
Funding Agency: REP
Submission Date: 01/01/22
Type of Grant: research
Role on Grant: PI
Amount of Grant: $8,000
Status: not funded

Title: Synthesis of Diols by Electrochemically Induced Cross-Coupling Reactions
Funding Agency: REP
Submission Date: 01/01/21
Type of Grant: research

Role on Grant: PI
Amount of Grant: $8,000
Status: not funded

Title: Electrochemically Induced Radical Cross-Coupling Reactions
Funding Agency: REP
Submission Date: 01/01/20
Type of Grant: research
Role on Grant: PI
Amount of Grant: $8,000
Status: not funded

Title: Cross-Coupling Reactions Induced Electrochemically by Novel Dicobalt Catalysts
Funding Agency: REP
Submission Date: 01/01/19
Type of Grant: research
Role on Grant: PI
Amount of Grant: $8,000
Status: not funded

Title: A Novel Catalyst for Electrochemically Induced Cross-Coupling Reactions
Funding Agency: REP
Submission Date: 01/01/16
Type of Grant: research
Role on Grant: PI
Amount of Grant: $8,000
Status: not funded

Title: Cross-Coupling Reactions Induced Electrochemically by a Dicobalt Catalyst
Funding Agency: REP
Submission Date: 01/01/15
Type of Grant: research
Role on Grant: PI
Amount of Grant: $8,000
Status: not funded

Title: Cross-Coupling of Radicals Electrogenerated by a Novel Dicobalt Catalyst
Funding Agency: REP
Submission Date: 01/01/14
Type of Grant: research
Role on Grant: PI
Amount of Grant: $8,000
Status: not funded

Title:	Design and Develop Multi-Purpose Electrochemical Sensors
Funding Agency:	REP
Submission Date:	01/01/11
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$8,000
Status:	not funded

Title:	Developing a New Type of Multi-Purpose Electrochemical Sensor
Funding Agency:	REP
Submission Date:	01/01/10
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$8,000
Status:	not funded

Title:	Synthesis of Isoxazolines and Isoxazoles by Electrochemical Reduction of Allyl Halides in the Presence of Nitric Oxide
Funding Agency:	REP
Submission Date:	01/01/09
Type of Grant:	research
Role on Grant:	PI
Amount of Grant:	$8,000
Status:	not funded

D. Fellowships, Awards, Honors:

Award	Location	Date
Dean Nominee for the Presidential Award for Excellence in Scholarly/Creative Activities	Texas State University	2010, 2013
NSERC Postdoctoral Fellowship	University of Guelph	2002
William P. Klinkenberg Award	Indiana University	1999
Lubrizol Fellowship	Indiana University	1999
Dean's Honor List	St. John's University	1992

IV. SERVICE

A. Institutional

1. University:
    - Sustainability Studies Council (Fall 2025 – present)
    - Texas State – SWPU exchange program academic advisor (Fall 2013 – Fall 2014)
    - Program for Excellence in Teaching and Learning (Fall 2010)
    - Student Commencement Speaker Committee (Fall 2005)
    - Student Commencement Speaker Committee (Fall 2004)

2. College:
    - Graduate College Master's Exit Survey Advisory Board (Summer 2023 –present)
    - SRO Advisory Committee (Spring 2018 – current)
    - WISE Conference Representative (Spring 2014 – Spring 2016)
    - REP Representative (Fall 2012)
    - STEM Professional Development Day (Spring 2009)
    - College of Science Graduate Scholarships Selection Committee (Spring 2007 – Spring 2009)

3. Department/School:
    - Scientific Instrument Technician Search Committee (Fall 2025 - Spring 2026)
    - Faculty Senate Liaison (Fall 2024 – present)
    - Department Program Review Committee (Summer 2023 – Summer 2024)
    - Physical Chemistry Search Committee (Fall 2021 – Spring 2022)
    - Physical and Analytical Chemistry Search Committee (Fall 2020 – Spring 2021)
    - Seminar Committee (Summer 2018 – present)
    - Graduate Student Recruiting Committee (Fall 2018 – present)
    - Graduate Program Committee (Fall 2018 – present, Chair)
    - Outcomes and Assessment Committee (Fall 2018 – present)
    - Chemistry/Biochemistry Research Colloquium Judge (Spring 2018)
    - Ad Hoc Committee on Merit Policy (Spring 2017 – present)
    - Analytical Chemistry Search Committee (Summer 2016 – Spring 2017, Chair)
    - Chemistry Curriculum Committee (Fall 2015 – present)
    - Personnel Committee (Fall 2010 – present)
    - Graduate Curriculum Committee (Fall 2015 – Spring 2016)
    - Ad Hoc Committee on Teaching Evaluation (Fall 2015 – Spring 2016)
    - Chemical Education Search Committee (Summer 2014 – Spring 2015, Chair)
    - Senior Lab Services Technician Search Committee (Fall 2014)
    - Service Evaluation Ad Hoc Committee (Summer 2014)
    - REU Poster Session Organizer (Summer 2014)
    - Faculty Evaluation Committee (Fall 2012 – Spring 2015, Spring 2022, Chair 2013-2014)
    - Space Committee (Fall 2013 – present)
    - NMR Users Committee (Spring 2011 – Fall 2017)
    - MSEC Search Committee (Fall 2013 – Spring 2014)
    - Ad Hoc Committee on UG Chemistry Learning Outcomes (Fall 2012)
    - Graduate Admission Committee (Fall 2010 – Summer 2013, Fall 2018 – present, Chair)
    - Senior Lab Services Technician Search Committee (Spring 2012)
    - Scheduling Coordinating Committee (Spring 2011 – Summer 2011)
    - Equipment Committee (Fall 2008 – Summer 2011, Chair)
    - Biochemistry Search Committee (Summer 2010 – Fall 2010)
    - Chemical Education Search Committee (Fall 2009 – Spring 2010)
    - Chemistry Chair Search Committee (Summer 2007 – Spring 2008)
    - Bobcat Day (Spring 2008, 2011, 2012, 2017, 2020)
    - University College Fair (Fall 2006)
    - SET Quest Committee (Spring 2006)

B. Professional:

- Grants Reviewed:
  1. J.M. Griffin, “Acquisition of a LA-ICP-MS to Provide Research and Educational Opportunities in Geology, Chemistry, and Environmental Science”, reviewed for NSF (MRI). (Spring 2019)
  2. J.A. Miranda, “Computational Studies of Metal-Salen Electrochemistry and Application to Catalytic Electroreductive Cyclization and Electrohydrocyclization”, reviewed for ACS Petroleum Research Fund. (Summer 2013)
  3. D.A. Bruce, “Helical Polymer Supports for Enantioselective Catalysis”, reviewed for NSF (Chemical Catalysis). (Fall 2012)
  4. J.M. Stoddard, “Investigation of Silica-Supported Solvent-Free Multi-Component Reactions”, reviewed for ACS Petroleum Research Fund. (Spring 2008)

- Manuscript Reviewed:

  1. U. Schmidt, M. Wilke, M. Leimbach, and A. Bund, “Investigation of the Electrochemical Conversion of Brighteners during Nickel Electrodeposition, Part 1: Chemical Analysis by Mass Spectrometry”, reviewed for *Journal of Applied Electrochemistry*. (Summer 2024)
  2. P. Tao, Y. Li, and K. Zheng, “Electrochemical Direct C-H Halogenation of N-Heteroarenes and Naphthols”, reviewed for *European Journal of Organic Chemistry*. (Summer 2023)
  3. D. Tomczyk, W. Bukowski, and K. Bester, “Kinetics of Redox Processes in the Polymer Films of Ni(II) Salen Type Complexes”, reviewed for *Journal of the Electrochemical Society*. (Spring 2019)
  4. M. Shamsipur, D. Nematollahi, S. S. H. Davarani, A. Taherpour, and A. Pashabadi, “One-Step Electrochemically Driven Production of Aza Macrocycle-Based Pseudo-Cryptand: An Accessible Route for Creating of Diverse Cryptand-Resembles Compounds”, reviewed for *Electrochimica Acta*. (Fall 2018)
  5. E. M. Hamed, “Solvent Effect on the Electrochemical Reduction of S-Phenyl Benzenethiosulfonate”, reviewed for *Research on Chemical Intermediates*. (Fall 2017)
  6. F. Shen, T.-Y. Chen, F. Shi, Q. Li, N. Song, Y. Li, Y. Dai, B. Yang, Y. Jia, and J. Shi, “Electrochemical Reduction of CO_2 into CO over Zn in Propylene Carbonate/Tetrabutylammonium Perchlorate”, reviewed for *Journal of the Electrochemical Society*. (Summer 2017)
  7. M. K. Mhiri, M. Abidi, N. Derbel, W. M. Feudjio, and S. Besbes-Hentati, “Synthesis and Anodic Oxidation of 3-(4-Fluorophenyl)-2-methyl-[1,2a] benzimidazolo-1,3,5-triazin-4-thione”, reviewed for *Journal of the Electrochemical Society*. (Summer 2016)
  8. Y. Li, J. Lv, and Y. He, “A Novel Monolithic Carbon Foam-Supported Pd-Based Catalyst towards Ethanol Electro-Oxidation in Alkaline Media”, reviewed for *Electrochimica Acta*. (Fall 2015)
  9. Y. Li, J. Lv, and Y. He, “A Novel Monolithic Carbon Foam-Supported PdNi Catalyst towards Ethanol Electro-Oxidation in Alkaline Media”, reviewed for *Electrochimica Acta*. (Fall 2015)
  10. E. B. Orman, S. Altun, Z. Odabaş, A. Altindal, and A. R. Özkaya, “Electrochemical, Electrocatalytic Dioxygen Reducing and Dielectric Relaxation Properties of Novel

Non-Peripheral Tetra-2,3-dihydro-1H-inden-5-yloxy Substituted Phthalocyanines", reviewed for *Journal of the Electrochemical Society*. (Summer 2015)

11. D. Sužnjević, M. Petrović, F. T. Pastor, M. Veljović, S. Zlatanović, M. Antić, and S. Gorjanović, "Reduction of Hg^{2+} by Individual Phenolics and Complex Samples and its Application in Polarographic Antioxidant Assay", reviewed for *Journal of the Electrochemical Society*. (Spring 2015)
12. D. Habibi, N. Pakravan, and D. Nematollahi, "Green and Efficient One-Pot Diels-Alder Electro-Organic Cyclization Reaction of 1,2-Bis(bromomethyl)benzene with Naphthoquinone Derivatives", reviewed for *Journal of the Electrochemical Society*. (Spring 2015)
13. A. H. Pakiari and S. Shariati joor, "The Effect of Coinage Transition Metal (Cu, Ag, Au) Substitutions on Two-Electron Redox Potential of Quinones", reviewed for *Journal of the Electrochemical Society*. (Fall 2014)
14. D. Habibi and N. Pakravan, "Green and Efficient One-Pot Diels-Alder Electro-Organic Cyclization Reaction of 1,2-Bis(bromomethyl)benzene with Naphthoquinone Derivatives", reviewed for *Journal of the Electrochemical Society*. (Fall 2014)
15. N. Wannaprom and P. Vanalabhpatana, "Electro-oxidation of Aldehydes in Alkaline Solution by Electropolymerized Nickel Salen-Based Film Modified Electrodes", reviewed for *Journal of the Electrochemical Society*. (Summer 2014)
16. X. Li, G. Xu, X. Jiang, and J. Tao, "Highly Sensitive and Simultaneous Determination of Hydroquinone and Catechol at Thionine/Graphene Oxide Modified Glassy Carbon Electrodes", reviewed for *Journal of the Electrochemical Society*. (Spring 2014)
17. L. Liu, J. Wu, W. Zhan, and Q. Meng, "Electrochemical Synthesis of 2,2'-Dichlorohydrazobenezene from *o*-Chloronitrobenzene on a Titanium Electrode", reviewed for *Journal of the Electrochemical Society*. (Spring 2014)
18. M. Ameri, A. Asghari, A. Amoozadeh, D. Nematollahi, M. A. Chamjangali, and L. Boutorabi, "Electro-Oxidation of Hydroquinone Derivatives in the Presence of 2-Acetyl-Gamma-Butyrolactone. A Green, Simple, One Pot and Efficient Method for Synthesis of New Hydroquinones", reviewed for *Journal of the Electrochemical Society*. (Spring 2014)
19. M. Ameri, A. Asghari, A. Amoozadeh, D. Nematollahi, and M. A. Chamjangali, "Green and Efficient Electro-Organic Synthesis of Hydroquinone Derivatives under EC Mechanism", reviewed for *Journal of the Electrochemical Society*. (Fall 2013)
20. J. Miranda, B. Gherman, J. Yates, and J.Fell, "Metal-Salens as Catalysts in Electroreductive Cyclization and Electrohydrocyclization: Computational and Experimental Studies", reviewed for *Journal of the Electrochemical Society*. (Spring 2013)
21. D. Nematollahi, H. Beiginejad, F. Varmaghani, and M. Bayat, "Efficient Factors on the Reaction Rate and Site-Selectivity in Sulfonylation of Catechol and Hydroquinone Derivatives: Experimental and Theoretical Studies", reviewed for *Journal of the Electrochemical Society*. (Spring 2013)
22. J. Zhang, L. Shangguan, and C. Dong, "Electrocatalytic Oxidation of Formaldehyde and Formic Acid at Pd Nanoparticles Modified Glassy Carbon Electrode", reviewed for *ECS Electrochemistry Letters*. (Fall 2012)
23. M.S. Baymak, "Electrochemical Behavior of an Important Sedative: Chloral", reviewed for *Journal of the Electrochemical Society*. (Summer 2012)

24. R.L. Merzel and A.J. Fry, "Competing Reaction Pathways in the Anodic Oxidation of Diphenylacetaldehyde. Differentiation by ^{18}O Isotopic Labeling", reviewed for *Journal of the Electrochemical Society*. (Summer 2012)
25. J.A. Bennett, M.A. Neiswonger, C.D. Wheeler, J.E. Pander III, and S.E. McKinney, "Cyanide-Coordinated Fe(III) meso-Tetra(4-carboxyphenyl) Porphyrin as a Possible Electrocatalytic Material for Selective H_2S Oxidation", reviewed for *Journal of the Electrochemical Society*. (Fall 2011)
26. S. Mohiuddin, "Teaching Internal Standard Method: An Experimental Approach", reviewed for *Journal of Chemical Education*. (Fall 2011)
27. D. Nematollahi and F. Varmaghani, "Oxidative Ring Cleavage of 4-Nitrocatechol. Kinetic Study Using Digital Simulation of Cyclic Voltammograms", reviewed for *Reaction Kinetics, Mechanisms and Catalysis*. (Spring 2010)
28. M.S. Workentin, V.A. Sauro, D.C. Magri, and J.L. Pitters, "The Electrochemical Reduction of 1,4 Dichloroazoethanes: Reductive Elimination of Chloride to Form Aryl Azines", reviewed for *Electrochimica Acta*. (Spring 2010)
29. J.L. Capelo, E. Bertolo, E. Oliveira, S. Galhofas, and C. Lodeiro, "Power Ultrasound in the Classroom: Efficient Methodology for the Fast Degradation of Organic Matter in Urine", reviewed for *The Chemical Educator*. (Spring 2009)

- Membership:
  1. American Chemical Society (ACS)
  2. The Electrochemical Society (ECS)
     - Executive Committee Member of the Organic & Bioelectrochemistry Division

C. Community:

- International Research Conference for Graduate Students (Poster Respondent, 2019)
- Family Service Youth Leadership Academy Career Fair (Summer 2014)
- REU Poster Judge (Summer 2013)
- Family Science Night (Spring 2012)
- Chemists Celebrate Earth Day (Spring 2007, Spring 2018)

D. Service Honors and Awards:

Award	Location	Date
College Achievement Award for the Presidential Award for Excellence in Service	Texas State University	2017

E. Service Grants and Contracts

1. Funded External Service Grants and Contracts:

2. Submitted, but not Funded, External Service Grants and Contracts:

3. Funded Internal Service Grants and Contracts:

4. Submitted, but not Funded, Internal Service Grants and Contracts: