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Education/Experience

2019 - present	Florida State University (FSU), Tallahassee, FL Associate Professor Department of Chemistry and Biochemistry
2013 - 2019	Florida State University (FSU), Tallahassee, FL Assistant Professor Department of Chemistry and Biochemistry
2010 – 2013	The University of North Carolina at Chapel Hill (UNC), Chapel Hill, NC Postdoctoral Associate, Department of Chemistry Research Advisor: Prof. Thomas J. Meyer
2005 – 2010	University of Southern California (USC), Los Angeles, CA Graduate Student, Department of Chemistry Research Advisor: Prof. Mark E. Thompson GPA: 3.81/4.0
2000 – 2005	St. Cloud State University (SCSU), St. Cloud, MN Degree: B.S. Chemistry GPA: 3.32/4.0, Cum Laude

Publications (h-index=50, i10=90, Citations=7319)

123. Liu, H.; Shonde, T.B.; Olasupo, O.J.; Islam, M.S.; Manny, T.F.; Woodhouse, M.; Lin, X.; Winfred, J.S.R.V.; Mao, K.; Lochner, E.; Fatima, I.; Hanson, K.; Ma, B. Organic Semiconducting Ligands Passivated $CsPbBr_3$ Nanoplatelets for Efficient and Stable Blue Light Emitting Diodes. Adv. Mats. **2023**, (submitted).

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Graduate and Postdoctoral Work

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35. Nayak, A.; Knauf, R.; Hanson, K.; Alibabaei, L.; Concepcion, J.; Ashford, D.; Dempsey, J.; Meyer, T.J. Synthesis and photophysical characterization of porphyrin and porphyrin-Ru(II) polypyridyl chromophore-catalyst assemblies on mesoporous metal oxides. *Chem. Sci.* **2014**, 5, 3115-3119.

34. Bettis, S. E.; Hanson, K.; Li, W.; Gish, M.; Concepcion, J.; Fang, Z.; Meyer, T. J., Papanikolas, J. M. Photophysical Characterization of Chromophore/water Oxidation Catalyst Containing Layer-by-layer Assembly on Nanocrystalline TiO2 Using Ultrafast Spectroscopy. *J. Phys. Chem.* A **2014**, 118, 10301-10308.

33. Ashford, D. L.; Lapides, A. M.; Vannucci, A. K.; Hanson, K.; Torelli, D. A.; Harrison, D. P.; Templeton, J. L.; Meter, T. J. Water Oxidation by an Electropolymerized Catalyst on Derivatized Mesoporous Metal Oxide Electrodes. *J. Am. Chem. Soc*. **2014**, 136, 6578-6581.

32. Kim, D. H.; Losego, M. D.; Hanson, K.; Alibabaei, L.; Lee, K.; Meyer, T. J.; Parsons, G. N. Stabilizing chromophore binding on TiO_2 for long-term stability of dye-sensitized solar cells using multicomponent atomic layer deposition. *Phys. Chem. Chem. Phys.* **2014**, 16, 8615-8622.

31. Lapides, A. M.; Ashford, D. L.; Hanson, K.; Torelli, D. A.; Templeton, J. L.; Meyer, T. J. Stabilization of a Ruthenium(II) Polypyridyl Dye on Nanocrystalline TiO_2 by an Electropolymerized Overlayer. *J. Am. Chem. Soc.* **2013**, 135, 15450-15458.

30. Hanson, K.; Losego, M. D.; Kalanyan, B.; Ashford, D. L.; Parsons, G. N.; Meyer, T. J. Using Atomic Layer Deposition to Stabilize Small Molecule Functionalized Metal Oxide Surfaces in Water. *Nano Lett* **2013**, 13, 4802-4809.

29. Song, W; Ito, A.; Binstead, R. A.; Hanson, K.; Luo, H.; Brennaman, M. K.; Concepcion, J. J.; Meyer, T. J. Accumulation of Multiple Oxidative Equivalents at a Single Site by Cross-Surface Electron Transfer. *J. Am. Chem. Soc.* **2013**, 135, 11587-11594.

28. Peng, Q.; Kalanyan, B.; Hoertz, P. G.; Miller, A.; Kim, D. H.; Hanson, K.; Alibabaei, L.; Liu, J.; Meyer, T. J.; Parsons, G. N.; Glass, J. T. Solution-Processed Antimony Doped Tin Oxide Colloids Film Enabled High-Performance TiO_2 Photoanodes for Water Splitting. *Nano Lett.* **2013**, 13, 1481-1488.

27. Ma, D.; Bettis, S. E.; Hanson, K.; Alibabaei, L.; Minikova, M.; Papoian, G. A.; Meyer, T. J.; Papanikolas, J. M.; Waters, M. L. Interfacial Energy Conversion in Ru^{II} Polypyridyl-Derivatized Oligoproline Assemblies on TiO_2. *J. Am. Chem. Soc.* **2013**, 135, 5250-5253.

26. Hanson, K.; Wilger, D. J.; Jones, S. T.; Harrison, D. P.; Bettis, S. E.; Luo, H.; Papanikolas, J. M.; Waters, M. L.; Meyer, T. J. Electron Transfer Dynamics of Peptide-Derivatized Ru^{II}-polypyridyl Complexes on Nanocrystalline Metal Oxide Films. *Pept. Sci.* **2013**, 100, 25-37.

25. Giokas, P. G.; Miller, S. A.; Hanson, K.; Norris, M. R.; Glasson, C. R. K.; Concepcion, J. J.; Bettis, S. E.; Papanikolas, J. M.; Meyer, T. J.; Moran, A. M. Spectroscopy and Dynamics of Phosphonated Ruthenium Complexes on TiO_2. *J. Phys. Chem. C* **2013**, 117, 812-824.

24. Luo, H.; Song, W.; Hoertz, P. G.; Hanson, K.; Ghosh, R.; Rangan, S.; Brennaman, M. K.; Concepcion, J. J.; Binstead, R. A.; Lopez, R.; Meyer, T. J. A Sensitized Nb_2O_5 Photoanode for Hydrogen Production in a Dye-Sensitized Photoelectrosynthesis Cell. *Chem. Mater.* **2013**, 25, 122-131.

23. Song, W.; Luo, H.; Hanson, K.; Concepcion, J. J.; Brennaman, M. K.; Meyer, T. J. Visualization of Cation Diffusion at the TiO_2 Interface in Dye Sensitized Photoelectrosynthesis Cells (DSPEC). *Energy Environ. Sci.* **2013**, 6, 1240-1248.

22. Hanson, K.; Torelli, D. A.; Vannuccci, A. K.; Brennaman, M. K.; Luo, H.; Alibabaei, L.; Song, W.; Ashford, D. L.; Norris, M. R.; Glasson C. R. K.; Concepcion, J. J.; Meyer, T. J. Self-assembled Bilayer Films of Ru(II) Polypyridyl Complexes by Layer-by-Layer Deposition on Nanostructured Metal Oxides. *Angew. Chem. Int. Ed.* **2012**, 51, 12782-12785.

21. Hanson, K.; Ashford, D. L.; Concepcion, J. J.; Binstead, R. A.; Luo, H.; Glasson C. R. K.; Templeton, J. L.; Meyer, T. J. Sensitized Photo-Decomposition of Organic Bis-Phosphonates By Singlet Oxygen. *J. Am. Chem. Soc.* **2012**, 134, 16975-16978.

20. Hanson, K.; Losego, M. D.; Kalanyan, B.; Ashford, D. L.; Parsons, G. N.; Meyer, T. J. Stabilization of $[Ru(bpy)_2(4,4'-(PO_3H_2)bpy)]^{2+}$ on TiO_2 with Atomic Layer Deposition of Al_2O_3. *Chem. Mater.* **2012**, 25, 3-5.

19. Hanson, K.; Hanson, D. A. Le Chatelier's Principle: A Newtonian-based Analogy That Makes Sense. *Chem. Edu.* **2012**, 17, 184-186.

18. Ghosh, R.; Hara, Y.; Alibabaei, L.; Hanson, K.; Rangan, S.; Bartynski, R.; Meyer, T. J.; Lopez, R. Increasing Photocurrents in Dye-Sensitized Solar Cells with Tantalum Doped Titanium Oxide Photoanodes Obtained by Laser Ablation. *ACS Appl. Mater. Interfaces* **2012**, 4, 4566-4570.

17. Song, W.; Chen, Z.; Glasson, C. R. K.; Hanson, K.; Luo, H.; Norris, M. R.; Ashford, D. L.; Concepcion, J. J.; Brennaman, M. K.; Meyer, T. J. Interfacial Dynamics and Solar Fuel Formation in Dye-Sensitized Photoelectrosynthesis Cells. *ChemPhysChem* **2012**, 13, 2882-2890.

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15. Hanson, K.; Roskop, L.; Patel, N.; Griffe, L.; Djurovich, P. I.; Gordon, M. S.; Thompson, M. E. Photophysical and Electrochemical Properties of 1,3-Bis(2-pyridylimino)isoindolate Platinum(II) Derivatives. *Dalton Trans.* **2012**, 41, 8648-8659.

14. Hanson, K.; Brennaman, M. K.; Luo, H.; Glasson, C. R. K.; Concepcion, J. J.; Song, W.; Meyer, T. J. Photostability of Phosphonate-Derivatized, Ru(II) Polypyridyl Complexes on Metal Oxide Surfaces. *ACS Appl. Mater. Interfaces* **2012**, 4, 1462-1469.

13. Diev, V. V.; Schlenker, C. W.; Hanson, K.; Zhong, Q.; Zimmerman, J. D.; Forrest, S. R.; Thompson, M. E. Porphyrins Fused with Unactivated Polycyclic Aromatic Hydrocarbons. *J. Org. Chem.* **2012**, 77, 143-159.

110. Ghosh, R.; Brennaman, M. K.; Concepcion, J. J.; Hanson, K.; Kumbhar, A. S.; Meyer, T. J.; Lopez, R. Efficient High Surface Area Vertically Aligned Metal Oxide Nanostructures for Dye-Sensitized Photoanodes by Pulsed Laser Deposition. *Proc. SPIE* **2011**, 8109, 81090U/1-81090U/6.

11. Song, W.; Glasson, C. R. K.; Luo, H.; Hanson, K.; Brennaman, M. K.; Concepcion, J. J.; Meyer, T. J. Photoinduced Stepwise Oxidative Activation of a Chromophore-Catalyst Assembly on TiO_2. *J. Phys. Chem. Lett.* **2011**, 2, 1808-1813.

10. Zimmerman, J. D.; Yu, E. K.; Diev, V. V.; Hanson, K.; Thompson, M. E.; Forrest, S. R. Use of Additives in Porphyrin-Tape/C60 Near-Infrared Photodetectors. *Org. Electron.* **2011**, 12, 869-873.

9. Song, W.; Brennaman, M. K.; Concepcion, J. J.; Jurss, J. W.; Hoertz, P. G.; Luo, H.; Chen, C.; Hanson, K.; Meyer, T. J. Interfacial Electron Transfer Dynamics for $[Ru(bpy)_2(4,4'-(PO_3H_2)_2bpy)]^{2+}$-Sensitized TiO_2 in a Dye-Sensitized Photoelectrosynthesis Cell: Factors Influencing Efficiency and Dynamics. *J. Phys. Chem. C* **2011**, 115, 7081-7091.

8. Hanson, K.; Patel, N.; Whited, M. T.; Djurovich, P. I.; Thompson, M. E. Substituted 1,3-Bis(imino)isoindole Diols: A New Class of Proton Transfer Dyes. *Org. Lett.* **2011**, 13, 1598-1601.

7. Hanson, K.; Roskop, L.; Djurovich, P. I.; Zahariev, F.; Gordon, M. S; Thompson M. E. A Paradigm for Blue- or Red-Shifted Absorption of Small Molecules Depending on the Site of π-Extension. *J. Am. Chem. Soc.* **2010**, 132, 16247-16255.

6. Diev, V. V.; Hanson, K.; Zimmerman, J. D.; Forrest, S. R.; Thompson, M. E. Fused Pyrene-Diporphyrins: Shifting Near-Infrared Absorption to 1.5 μm and Beyond. *Angew. Chemie., Int. Ed.* **2010**, 49, 5523-5526.

5. Hanson, K.; Tamayo, A.; Diev, V.; Djurovich, P. I.; Thompson, M. E. Efficient Dipyrrin-Centered Phosphorescence at Room Temperature from Bis-Cyclometalated Iridium(III) Dipyrrinato Complexes. *Inorg. Chem.* **2010**, 49, 6077-6084.

4. Zimmerman, J. D.; Diev, V. V.; Hanson, K.; Lunt, R. R.; Yu, E. K.; Thompson, M. E.; Forrest, S. R. Porphyrin-Tape/C60 Organic Photodetectors with 6.5% External Quantum Efficiency in the Near Infrared. *Adv. Mater.* **2010**, 22, 2780-2783.

3. Sun, Y.; Borek, C.; Hanson, K.; Djurovich, P. I.; Thompson, M. E.; Brooks, J.; Brown, J.; Forrest, S. R. Photophysics of Pt-Porphyrin Electrophosphorescent Devices emitting in the Near Infrared. A*ppl. Phys. Lett.*, **2007**, 90, 213503/1-213503/3.

2. Borek, C.; Hanson, K.; Djurovich, P. I.; Thompson, M. E.; Aznavour, K.; Bau, R.; Sun, Y.; Forrest, S. R.; Brooks, J.; Michalski, L.; Brown, J. Highly Efficient, Near-Infrared Electrophosphorescence from a Pt-Metalloporphyrin Complex. *Angew. Chemie., Int. Ed*. **2007**, 46, 1109-1112.

1. Hanson, K.; Calin, N.; Bugaris, D.; Scancella, M.; Sevov, S. Reversible Repositioning of Zinc Atoms in Single Crystals of a Zinc Polycarboxylate with an Open-Framework Structure. *J. Am. Chem. Soc.* **2004**, 126(34), 10502-10503.

Patents

Pending

13. Hanson, Photomechanical Polymers, Compositions, And Methods U.S. Pat. Appl. Publ. (2023), US 20200188896A1.

12. Uribe-Romo, F.J.; Logan, M.W.; Hanson, K.; Ayad, S. “Photo-redox titanium containing organic frameworks and methods of making and use thereof” U.S. Pat. Appl. Publ. (2020), US 20200188896A1.

Issued

11. Hanson, K.; Salpage, S.; Albrecht-Schmitt, T.E. “Photochemical Separations and Compositions” U.S. Pat. US 11591277B2 (2023).

10. Hanson, K.; Wang, J. C.; Banerjee, T.; Ogunsolu, O.O. "Modulating Electron Transfer Dynamics at Hybrid Interfaces via Self-Assembled Bilayers" U.S. Pat. US 10916381B2 (2021).

9. Hanson, K.; Hill, S.; Dilbeck, T. "Molecular Photon Upconversion Using Organic-Inorganic Hybrid Interfaces" U.S. Pat. US 10991517 (2021).

8. Hanson, K.; Ayad, S.; Posey, V. Atropisomers and Methods of Altering Enantiomeric Excess. U.S. Pat. US 10584077B2 (2018).

7. Hanson, K.; Meyer, T. J.; Parsons, G. N.; Losego, M. D.; Kalanyan, B.; Kim, D. H. "Assemblies and methods of stabilization" PCT Int. Appl. WO 2014081921 (2014).

6. Hanson, K.; Meyer, T. J. "Molecular assemblies and multilayer films for photocurrent and catalysis" PCT Int. Appl. (2013), WO 2013142595.

5. Thompson, M. E.; Hanson, K.; Djurovich, P. “Fluorescent isoindoline dyes” U.S. Pat. US 9412955B2 (2012).

4. Forrest, S. R.; Zimmerman, J. D.; Thompson, M. E.; Diev, V.; Hanson, K. “Fusing porphyrins with polycyclic aromatic hydrocarbons and heterocycles for optoelectronic applications” U.S. Pat. US9113535B2 (2015).

3. Forrest, S. R.; Zimmerman, J. D.; Thompson, M. E.; Diev, V.; Hanson, K. “Visible/NIR photodetectors” U.S. Pat. US9017826B2 (2015).

2. Thompson, M. E.; Borek, C.; Hanson, K.; Djurovich, P.; Sun, Y.; Forrest, S. “Near-infrared emitting organic compounds and organic devices using the same” U.S. Pat. US7989090B2 (2011).

1. Thompson, M. E.; Hanson, K.; Djurovich, P.; Griffe, L. "Arylimino-isoindoline complexes for use in organic light emitting diodes.” U.S. Pat. Appl. Publ. US20090243468 (2009).

Grants/Awards/Honors

2023	"CAS: Inhibiting Molecular Reorganization via Strategic Surface Binding" National Science Foundation, 06/1/18-05/31/23, $495,273.
2021	Nominated for the Inclusive Teaching and Mentoring Award
2020	FSU Developing Scholar Award ($10,000)
2020	Emerging Investigators issue of *ACS Applied Energy Materials*
2019	"MRI: Acquisition of an Ultrafast Transient Absorption Spectrometer" National Science foundation, 07/01/19-06/30/22, $321,490.
2019	"Understanding and Controlling the Structure at Organic-Inorganic Interfaces for the Generation of Stimuli Responsive Multilayered Materials" Army Research Office, 6/5/19-6/4/22, $425,035.
2018	Inter-American Photochemical Society-Young Investigator Award

2018 FSU Undergraduate Teaching Award
2018 "CAREER: Harnessing Photon Upconversion Via Self-Assembled Hybrid Materials" National Science Foundation, 06/1/18-05/31/23, $549,028.
2018 Emerging Investigators issue of *Chemical Society Reviews*
2018 Rising Star of the International Conference on Coordination Chemistry
2017 Emerging Investigators issue of *Journal of Materials Chemistry A*
2016 AAAS Early Career Award for Public Engagement with Science (Top 5 Finalist)
2016 "Emerging Investigators in Inorganic Photochemistry and Photophysics" Inorganic Chemistry, 10.1021/acs.inorgchem.6b02830.
2016 "EFRC: Center For Actinide Science", Department of Energy, 08/01/16-07/31/20, $10,000,000.
2016 C&EN's ChemPics Tumblr Blog: Blue Moon
Chemical & Engineering News ***July 18, 2016,*** *94, p11*.
2015 AAAS Early Career Award for Public Engagement with Science (Top 5 Finalist)
2015 "MRI: Acquisition of a Transient Absorption Spectrometer" National Science foundation, 08/15/15-07/31/18, $206,847.
2015 Selected as 1 of 50 "Not to miss" presentations at the Fall 2015
National Meeting of the American chemical Society
2015 C&EN's ChemPics Tumblr Blog Chemistry Photo of the Year
Chemical & Engineering News **March 23, 2015,** 12, p22.
2014 "Asymmetric Electron Transfer Rates at Organic-Inorganic Hybrid Interfaces via Self-Assembled Bilayers" Army Research Office-Young Investigator Program Award, 09/30/14-09/29/17, $150,000.
2014 "Controlling the Absolute Stereochemistry of Prochiral Substrates with Chiral Excited-State Proton Transfer Dyes" American Chemical Society-Petroleum Research Fund, 09/01/14-08/31/16, $110,000.
2014 "Polymer-Embedded Gamma-Ray Detectors." Invincea Inc. 04/01/14-01/31/15, $95,664
2013 "Self-Assembled Bilayers for Application in Dye-Sensitized Solar Cells" FSU CRC First Year Assistant Professor Award, 05/05/14-08/08/14, $20,000.
2009 William P. Weber Award for Outstanding Research and Mentoring USC
2006 Outstanding Performance in Teaching, General Chemistry USC
2003 Biophysical Chemistry Student of the Year SCSU
2002 Organic Chemistry Student of the Year SCSU

Awards and Honors Received by Students

2023 Ashley Arcidiacono, Beckman Postdoctoral Fellowship
2023 Erica Knorr, Philip Schlenoff Graduate Travel Award
2023 Ashley Arcidiacono, FSU Graduate Student Research and Creativity Award
2023 Ben Hanks, Katherine Blood Hoffman Excellence Award (FSU)
2023 Ashley Arcidiacono, Graduate Poster Award, Inter-American Photochemical Society Meeting
2023 Erica Knorr, Graduate Poster Award, Inter-American Photochemical Society Meeting
2023 Sarah Lindbom, Undergraduate Poster Award, Inter-American Photochemical Society Meeting
2022 Grace McLeod, Cheryl & Joel Rosenfield Endowment Award (FSU)
2022 Ashley Arcidiacono, Philip Schlenoff Graduate Travel Award (FSU)
2021 Ashley Arcidiacono, Cheryl & Joel Rosenfield Endowment Award (FSU)
2021 Ashley Arcidiacono, DoD SMART Semi-Finalist
2020 Ashley Arcidiacono, Wilder Scholarship (FSU)
2020 Ashley Arcidiacono, ACS Graduate Student Symposium Planning Committee Award
2019 Cory Ruchlin, FSU Outstanding Undergraduate Senior Award
2019 Victoria Posey, NSF-Graduate Research Fellow
2019 Ashley Arcidiacono, NSF-Graduate Research Fellow (honorable mentioned)
2019 Yan Zhou, FSU Art in Stem Exhibition (finalist)
2019 Yan Zhou, Philip Schlenoff Graduate Travel Award
2019 Yan Zhou, FSU Graduate Student Research and Creativity Award
2019 Sahan Salpage, 3rd place poster, Inter-American Photochemical Society Meeting
2018 Omotola Ogunsolu, James S. Brooks Graduate Student Award
2018 Jamie Wang, FSU Outstanding Inorganic Chemistry Graduate Student Award
2018 Jamie Wang, FSU Art in Stem Exhibition (finalist)
2018 Victoria Posey, DeLos and Francis DeTar Scholarship
2018 Victoria Posey, Philip Schlenoff Endowment for Undergraduate Excellence Research Award
2018 Tristan Dilbeck, Philip Schlenoff Graduate Travel Award
2018 Andrew Olsson, Professor Jack Saltiel Undergraduate Research Award
2018 Suli Ayad, FSU Teaching Assistant Award Nominee
2017 Tristan Dilbeck, Ramaille and Usher Graduate Student Award
2017 Justin Silver, Philip Schlenoff Undergraduate Research Fellowship
2017 Tristan Dilbeck, Carl Storm Travel Fellowship

2017	Omotola Ogunsolu, People's Choice Award, FSU 2017 Art in STEM Exhibition
2017	Suliman Ayad, Judges Choice Runner Up, FSU 2017 Art in STEM Exhibition
2017	Omotola Ogunsolu, DAAD RISE Professional Scholarship
2016	Tristan Dilbeck, 2nd place graduate poster, Florida Inorganic/Material Symposium
2016	Kyle Violette, 1st place undergraduate poster, ACS Florida Annual Meeting and Exposition
2016	Omotola Ogunsolu, Summer Institute for Sustainability and Energy Prize
2016	Tristan Dilbeck, Ford Foundation Fellowship (honorable mentioned)
2015	Omotola Ogunsolu, FSU Art in Stem Competition (runner-up)
2015	Jamie C. Wang, NSF-Graduate Research Fellow
2015	Omotola Ogunsolu, Ventura Neale International Peace Scholarship
2015	Ian Murphy, 1st place undergraduate poster, ACS Florida Annual Meeting and Exposition
2015	Sean Hill, 2nd place graduate poster, ACS Florida Annual Meeting and Exposition
2015	Jamie C. Wang, 1st place graduate poster, Florida Inorganic/Material Symposium
2015	Sean Hill, 3rd place graduate poster, Florida Inorganic/Material Symposium
2015	Ian Murphy, 1st place undergraduate poster, Florida Inorganic/Material Symposium
2015	Catherine Ken, 2nd place undergraduate poster, Florida Inorganic/Material Symposium
2014	Omotola Ogunsolu, Reverie Innovation Scholarship
2014	Jamie C. Wang, 2nd place graduate poster, Florida Inorganic/Material Symposium

Current Membership in Professional Organizations

American Chemical Society
Inter-American Photochemical Society
Phi Lambda Upsilon, The National Chemistry Honor Society
Sigma Xi, The Scientific Research Society

Courses Taught

CHM5710	Chemical Structure and Bonding	Graduate	Fall 2013
CHM5175	Measurements and Data Analysis in Chemistry	Graduate	Fall 2014
CHM4905	Directed Individual Study	Undergraduate	Fall 2014 -
CHM1051	Honors General Chemistry II	Undergraduate	Spring 2015
CHM4906	Honors Work	Undergraduate	Summer 2015 -
CHM1046	General Chemistry II	Undergraduate	Fall 2015
CHM5555	Chemical Reactivity	Graduate	Spring 2016
CHM1051	Honors General Chemistry II	Undergraduate	Spring 2017
CHM1046	General Chemistry II	Undergraduate	Fall 2017
CHM5681	Physical Methods in Inorganic Chemistry	Graduate	Fall 2018
CHM1046	General Chemistry II	Undergraduate	Spring 2019
CHM1046	General Chemistry II	Undergraduate	Fall 2019
CHM1046	General Chemistry II	Undergraduate	Fall 2020
CHM1046	General Chemistry II	Undergraduate	Fall 2021
CHM5541	Group Theory and Inorganic Spectroscopy	Graduate	Spring 2022
CHM1046	General Chemistry II	Undergraduate	Fall 2022
CHM1046	General Chemistry II	Undergraduate	Fall 2023

Presentations and Conferences

2022, April 19	Bethel University, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2022, April 18	University of Minnesota, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2022, April 17	St. Cloud State University, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2022, October 12	Milan, Italy; International Symposium on Singlet Fission and Photon Fusion, "TTA-UC Solar Cells: Understanding and Controlling the Structure of Metal Ion Linked Multilayer Photoanodes" (Invited Talk)
2022, August 4	Newport, Rhode Island; Gordon Research Conference on Electron Donor-Acceptor Interactions, "Understanding and Controlling Molecular Structure and Excited State Dynamics at Dye-Metal Oxide Interfaces" (Invited Talk)

2022, May 24	Cancun, Mexico; Fusion Frontiers in Photochem, "Impact of Structure On Energy and Electron Transfer At Molecular Multilayer-Metal Oxide Interfaces" (Invited Talk)
2022, May 6	Tallahassee, Florida; FSU Postdoctoral Association, Career Development Workshop, "One Postdoc's Journey on the Academic Job Market" (Invited Talk)
2022, April 8	University of South Carolina, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2022, March 23	San Diego, California; Spring 2022 National ACS Meeting, Kasha Symposium, "Facilitating Organic Transformations via Triplet Excited States" (Invited Talk)
2022, March 8	University of Alabama, Department of Chemistry, "Organic Transformations and Metal Ion Sensing via Excited State Proton Transfer Dyes" (Invited Talk)
2022, February 4	Villanova, Department of Chemistry, "Applied Molecular Photophysics: My 25-Year Journey in Color Chemistry" (Invited Talk)
2021, November 13	Birmingham, Alabama; Southeastern Regional Meeting of the American Chemical Society "Excited State Proton Transfer Dye with an Emission Quantum Yield up to 60% upon Zn^{2+} Coordination" (invited talk)
2021, November 12	Birmingham, Alabama; Southeastern Regional Meeting of the American Chemical Society "Using Classical Test Theory and Rasch Modeling to Improve General Chemistry Exams on a Per Instructor Basis" (invited talk)
2021, November 11	Birmingham, Alabama; Southeastern Regional Meeting of the American Chemical Society "Molecular Z-Scheme for H_2 Production via Dual Photocatalytic Cycles" (invited talk)
2021, March 25	Seaton Hall University, Department of Chemistry & Biochemistry. "Organic Transformations via Excited State Proton Transfer" (Invited Talk via Zoom)
2021, March 23	William Patterson Unviersity, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2021, March 10	Madrid, Spain; NanoGE Conference, "Harnessing Molecular Photon Upconversion in Dye-Sensitized Solar Cells" (Invited Talk via Zoom)
2020, October 28	Florida Southern University, Department of Chemistry & Biochemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk via Zoom)
2019, January 4	Sarasota, Florida; Inter-American Phocochemical Society Meeting (I-APS), "Chemical Transformations via Photoinduced Proton and Electron Transfer" (Award Talk)
2018, September 6	Auburn University, Department of Chemistry & Biochemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, August 31	Florida State University, Department of Chemistry & Biochemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, August 1	Sendai, Japan; 43rd International Conference on Coordination Chemistry, "Harnessing Molecular Photon Upconversion Using Transition Metal Ion Linked Molecular Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, April 17	Gothenburg, Sweden; International Symposium on Singlet Fission and Photon Fusion, "Role of the Sensitizer and Acceptor in Photon Upconversion Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, April 11	University of California-Los Angeles, Department of Chemistry & Biochemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)

2018, April 10	University of Southern California, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, April 9	California Institute of Technology, Division of Chemistry and Chemical Engineering, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, April 6	University of California-Riverside, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, March 21	New Orleans, Louisiana; Spring 2018 National ACS Meeting, PCET PhotoCatalysis with Inorganic Molecules & Materials Symposium, "Modulating electron transfer dynamics at dye-semiconductor interfaces via self-assembled bilayers" (Invited Talk)
2018, March 18	New Orleans, Louisiana; Spring 2018 National ACS Meeting, Frontiers in Synthetic Organic Photochemistry, "Organic transformations via excited state proton transfer" (Invited Talk)
2018, February 23	University of Texas-San Antonio, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, February 13	University of Pennsylvania, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, February 12	Villanova, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, February 7	University of Washington, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, February 2	North Carolina State University, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, February 1	Duke, Department of Chemistry, "Pushing the Efficiency Limits of Solar Cells with Molecular Photon Upconversion" (Invited Talk)
2018, January 31	University of North Carolina at Chapel Hill, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, January 23	National Renewable Energy Laboratory (NREL), Center for Advanced Solar Photophysics, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, January 22	University of Colorado-Boulder, Department of Chemistry and Biochemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, January 19	University of Central Florida, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, January 18	University of South Florida, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2018, January 11	Northwestern University, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2017, December 5	Fukoka, Japan; 5th CMS International Symposium on Photofunctional Chemistry and Molecular Systems, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2017, November 21	Georgia Institute of Technology, Department of Chemistry & Biochemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)

2017, November 9	Charlotte, North Carolina, Southeastern Regional Meeting of the American Chemical Society "Modulating Electron Transfer Dynamics at Dye-Semiconductor Interfaces via Self-Assembled Bilayers" (invited talk)
2017, October 2	Los Alamos National Lab, EFRC-CAST Centerwide Annual Meeting "Wavelength Selective Photochemical Transformations Using Electroactive Ligands" (Invited Talk)
2017, September 19	University of Florida, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2017, August 25	University of South Alabama, Department of Chemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces" (Invited Talk)
2017, August 21	Washington DC; Fall 2017 National ACS meeting, Symposium on the Triplet Excited State in Inorganic Chemistry, "Harnessing low energy triplet states via molecular photon upconversion at organic-inorganic interfaces" (Invited Talk)
2017, July 24	Washington DC; EFRC-Hub-CMS PI Meeting, "Wavelength Selective Photochemical Transformations Using Electroactive Ligands" (Invited Talk)
2017, July 23	Lewiston, Maine; Gordon Research Conference on Photochemistry, "Harnessing Molecular Photon Upconversion Using Self-Assembled Multilayers on Metal Oxide Surfaces." (Invited Talk)
2017, May 19	Tallahassee, Florida; FSU Postdoctoral Association Spring Workshop: Breaking out of your postdoc, "'Get a Job, Ken!' One postdoc's journey on the academic job market." (Invited Talk)
2017, May 5	Palm Harbor, Florida; Florida Annual Meeting and Exposition, "Get a Job, Ken!' One postdoc's journey on the academic job market." (Invited Talk)
2017, April 21	Phoenix, Arizona; Spring 2017 National MRS meeting, " Photon Upconversion Dye-Sensitized Solar Cells via Self-Assembled Multilayers" (Contributed Talk)
2017, April 20	Phoenix, Arizona; Spring 2017 National MRS meeting, " Photon Upconversion Dye-Sensitized Solar Cells via Self-Assembled Multilayers" (Invited Talk)
2017, March 10	Tampa Bay, Florida; Moffitt Cancer Center 4th Annual Junior Scientist Retreat, "'Get a Job, Ken!' One postdoc's journey on the academic job market." (Invited Talk)
2017, March 3	Tallahassee, Florida; FSU Fellows Forum 2017, "Ask a Scientist: Engaging the Tallahassee Community in Science One Person at a Time" (Invited Talk)
2016, September 23	Jacksonville, Florida; University of North Florida Chemistry Departmental Seminar, "Photon Upconversion Dye-Sensitized Solar Cells via Self-Assembled Bilayers on Nanocrystalline Metal Oxides " (Invited Talk)
2016, August 21-25	Philadelphia, Pennsylvania; Fall 2016 National ACS meeting, Special Symposium to Celebrate the 75th Birthday of Thomas J. Meyer, "Energy and electron transfer dynamics of photon upconversion in self-assembled bilayers " (Organizer/Invited Talk)
2016, Apr. 18-21	Gothenburg, Sweden; 1st International Symposium on Singlet Fission and Photon Fusion, "Photon Upconversion Dye-sensitized Solar Cells via Self-Assembled Bilayers on Nanocrystalline Metal Oxides" (Contributed Talk)
2015, Nov. 2-4	Harbin China; Workshop on Nanomaterials for Energy and Biotechnology, "Photon Upconversion and Photocurrent Generation via Self-Assembly at Hybrid Interfaces" (Invited Talk)
2015, July 19-24	Easton, Massachusetts; Gordon Research Conference on Photochemistry, "Photon upconversion and photocurrent generation via self-assembled bilayers on metal oxide surfaces" (Poster/Invited Talk)

2015, May 7	Palm Harbor, Florida; Florida Annual Meeting and Exposition, "Photon upconversion and photocurrent generation via self-assembled bilayers on metal oxide surfaces" (Invited Talk)
2015, March 22-26	Denver, Colorado; Spring 2015 National ACS meeting, ACS Award in the Chemistry of Materials: Symposium in Honor of Mark E. Thompson, "Photon upconversion and photocurrent generation via self-assembled bilayers on metal oxide surfaces" (Invited Talk)
2015, September 13	FAMU–FSU, Chemical & Biomedical Engineering, " Manipulating Energy and Electron Transfer Dynamics at Dye-Semiconductor Interfaces via Self-Assembled Bilayers" (Invited Talk)
2014, September 25	College of Charleston, Department of Chemistry and Biochemistry, "Manipulating Electron and Energy Transfer at Organic-Inorganic Hybrid Interfaces" (Invited Talk)
2013, October 10	FAMU–FSU, Electrical Engineering, "Self-Assembled Bilayers for Use in Dye-sensitized Solar Cells: A New Architecture with New Opportunities" (Invited Talk)
2013, September 25	FSU, Materials Science & Engineering, "Self-Assembled Bilayers for Use in Dye-sensitized Solar Cells: A New Architecture with New Opportunities" (Invited Talk)
2013, September 9	FAMU–FSU, Chemical & Biomedical Engineering, "Self-Assembled Bilayers for Use in Dye-sensitized Solar Cells: A New Architecture with New Opportunities" (Invited Talk)

Leadership and Science Advocacy

2023-present	Advisory board member for the Inter-American Photochemical Society (Elected)	
2021-present	Reviewer for the Florida, Department of Education Statewide Science Assessments	
2020-present	Founder and organizer of bi-monthly Ask a Scientist Gaming on Twitch	
2020-present	Editorial Advisory Board, the *Journal of Photochemistry and Photobiology*	
January 3-6, 2023	Organizer for the Inter-American Photochemical Society Meeting	Miramar Beach, Florida
October 17, 2022	FSU Freshman Interest Groups guest speaker “One Professors Journey on the Academic Roller Coaster”	
October 5, 2022	TechWomen Mentor, U.S. Department of State’s Bureau of Educational and Cultural Affairs.	
July 7, 2022	FSU Office of Research Development, Internal NSF-CAREER review panel	
June 6-7, 2022	NSF Chemistry Early Career Investigator Workshop, Washington DC (senior mentor/panel member)	
May 20, 2022	ACS, 26th Annual Green Chemistry & Engineering Conference “Careers in Green Chemistry for Sustainable Use” (Q&A Panel Member)	
May 6, 2022	FSU Postdoctoral Association, Career Development Workshop (Presenter/panel member)	
2018 – 2020	Contributor, The Impact of Chemistry on Society, MRS and DOD	
2018 – 2020	Contributor, Strange Evidence, Discovery Network (Seasons 2-4)	
August 19-21, 2019	Organizer for the Charge Transport in Organic Materials session, IEEE Research and Applications of Photonics in Defense	Miramar Beach, Florida
September 18, 2018	Contributor, Florida Crossroads – Sun Power in the Sunshine State (WFSU/The Florida Channel)	
August 1-4, 2018	Organizer for the Rising stars in coordination chemistry session, 2018 International Conference on Coordination Chemistry	Sendai, Japan
August 21-25, 2016	Organizer for the special symposium "INOR: Manipulating Energy and electron transfer in molecules and devices." Fall 2016 National ACS Meeting	Philadelphia, PA
May 5-7, 2016	Organizer for the Materials subdivision of the ACS Florida Annual Meeting and Exposition	Tampa Bay, FL
June 24, 2015	Panelist for SCIENCE 2034 Live Congressional Briefing	Washington, DC
2014 – 2018	"Build your own DSSC" with MoLab Inc. Science Outreach	FSU
2014 – 2020	Founder and organizer of the monthly Ask a Scientist event (First Friday)	FSU
2011 – 2013	EFRC Interface Characterization Team Coordinator	UNC
2010 – 2013	Guest Lecturer for the Climate Leadership and Energy Awareness Program	UNC
2010 – 2011	EFRC Devices Team Coordinator	UNC
2009 – 2021	Contributor: www.chemistry-blog.com Highlights: "Blogroll: Take a deep breath" *Nature Chemistry* **2010**, 2, 73	
2008 – 2018	Forum moderator: www.reddit.com/r/chemistry/	
2008 – 2009	Inorganic Chemistry Journal Club Coordinator	USC
2004 – 2005	Chemistry Club Vice President	SCSU
2003 – 2004	Chemistry Club Public Relations Director	SCSU
2002 – 2005	Chemistry Club Member	SCSU

Undergraduate Students Supervised

Ian Murphy	Chemistry	FSU	Fall 2013-Spring 2016
Bryan Casale	Chemistry	FSU	Spring 2014-Summer 2016
Enric Baduel	Chemical Engineering	FSU	Spring 2014-Fall 2016

Catherine Kent	Chemistry/Mechanical Engineering	FSU	Fall 2014- Fall 2016
Kyle Violette	Chemistry	FSU	Spring 2015-Spring 2017
Justin Silver	Chemistry	FSU	Fall 2016-Fall 2017
Tori Posey	Chemistry	FSU	Fall 2016-Spring 2019
Alex Braun	Chemical Engineering	FSU	Fall 2016-Spring 2019
Ronald Lanzetta	Chemistry	FSU	Spring 2017-Spring 2018
Andrew Olsson	Chemistry	FSU	Spring 2017-Spring 2019
Karine David	Biomedical	FAMU	Summer 2017 (REU)
Cory Ruchlin	Chemistry	FSU	Fall 2017-Spring 2019
Jacob Schaffner	Chemistry	UNT	Summer 2018 (REU)
Caleb Haake	Chemistry	FSU	Summer 2018-Fall 2018
Dalton Miles	Chemistry	FSU	Fall 2018-Spring 2020
Jonathan Wheeler	Chemical Engineering	FSU	Summer 2019-Spring 2021
Autumn Peters	Chemistry	Millersville	Summer 2019 (REU)
Sarah Lindbom	Chemistry	FSU	Spring 2022-
Jackson Nolder	Chemistry	FSU	Fall 2022-
Cody Basquill	Chemistry	FSU	Spring 2023-
Dominic Willadsen	Chemistry	Concordia UW	Summer 2023 (REU)

Graduate Students Supervised as Major Professor

Jamie Wang	Chemistry	FSU	Fall 2013-Spring 2018
Sean Hill	Chemistry	FSU	Fall 2013-Spring 2018
Omotola Ogunsolu	Materials Science & Engineering	FSU/FAMU	Fall 2014-Spring 2018
Tristan Dilbeck	Chemistry	FSU	Fall 2014-Spring 2019
Suliman Ayad	Chemistry	FSU	Fall 2015-Spring 2020
Yan Zhou	Chemistry	FSU	Fall 2015-Spring 2020
Drake Beery	Chemistry	FSU	Fall 2017-Spring 2022
Alex Robb	Chemistry	FSU	Fall 2017-Spring 2022
Ashley Arcidiacono	Chemistry	FSU	Fall 2018-Spring 2023
Jiaqi Chen	Chemistry	FSU	Fall 2018-Spring 2023
Noelle Watson	Chemistry	FSU	Fall 2019-
Erica Knorr	Chemistry	FSU	Fall 2019-
Grace McLeod	Chemistry	FSU	Fall 2020-
Iqra Fatima	Chemistry	FSU	Spring 2022-
Ben Hanks	Chemistry	FSU	Fall 2022-
Henry London	Chemistry	FSU	Fall 2022-

Postdoctoral Researchers Supervised

Tanmay Banerjee	Chemistry	FSU	Spring 2014-Spring 2017
Anjan Das	Chemistry	FSU	Fall 2015-Summer 2017
Sahan Salpage	Chemistry	FSU	Fall 2016-Fall 2019