

NICHOLAS A LEED

SUMMARY

Inorganic Chemist with experience teaching a wide range of students from the high school level through graduate students. Previous positions involved education, manufacturing, biological, and experimental applications as well as troubleshooting various instruments. Proficient in standard software for modeling, simulation, optimization, and analysis. Skilled and experienced with the maintenance and repair of GC-MS, GC-FID, HPLC, ICP-MS, ESI-MS, TCSPC, NMR and UV-VIS and IR spectrometers.

EDUCATION

Ph.D. Inorganic Chemistry, The Ohio State University **2008 – 2013**

- Advisor: Claudia Turro, PhD
- Research Focus: Ultrafast studies to explore their photodynamic and photophysical properties of novel inorganic complexes with possible applications in photodynamic therapy, dye sensitized solar cells, and photo isomerization

B.S.E. Chemistry, Millersville University, Millersville, Pennsylvania **1999 – 2003**

- Advisor: Mark Iannone, PhD
- Senior Project: Student Teaching, CP and AP chemistry courses at Hempfield High School.
- GPA: 3.4/4.0

PROFESSIONAL EXPERIENCE

Millersville University, Millersville, PA **August 2022 – May 2023**

Visiting Professor

- Create lesson plans for non-science major general chemistry students (Chem 101 and Chem 103/104)
- Supervise General Chemistry lab for non-science major students
- Integrate the use of an e-book textbook and digital delivery homework into the course
- Use techniques from the American Modeling Teachers Association to assist students in learning the skills of dimensional analysis and stoichiometry
- Supervise Organic Chemistry laboratory

The University of Delaware, Newark, DE **August 2019 – Present**

Adjunct Professor

- Create lesson plans for general chemistry students
- Integrate the use of an e-book textbook and digital delivery homework into the course
- Use techniques from the American Modeling Teachers Association to assist students in learning the skills of dimensional analysis and stoichiometry
- Assist non-English speaking students through the English Language Institute of the University of Delaware
- Integrate the use technology into the classroom such as the use of iClicker problems/quizzes into the lecture to allow feedback and more individual interaction with students

Widener University, Chester, PA **September 2019 – Present**

Adjunct Professor

- Supervised a general chemistry laboratory for nursing students (Chem106)
- Supervised a general chemistry laboratory for science students (Chem148)
- Grading of laboratory reports and exams

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Publications

- "Excited State Dynamics of Two New Ru(II) Cyclometallated Dyes: Relation to Cells for Solar Energy Conversion and Comparison to Conventional Systems" *J. Phys. Chem. C*, **2012**, 116 (42), pp 22186–22195
- "Directional Charge Transfer and Highly Reducing and Oxidizing Active Excited States of New Dirhodium(II,II) Complexes: Potential Applications in Solar Energy Conversion" *Chem. Sci.*, **2014**, 5, 727-737
- "Marked Improvement in Photoinduced Cell Death by a New Tris-Heteroleptic Complex with Dual Action: Singlet Oxygen Sensitization and Ligand Dissociation" *J. Am. Chem. Soc.*, **2014**, 136, 17095-17101

PRESENTATIONS

- Central Regional Meeting of the ACS, Detroit, Michigan; Oral Presentation **June 2012**
- National Meeting of the ACS, Philadelphia, Pennsylvania; Poster **August 2012**
- Inter-American Photochemical Society Winter Meeting, Sarasota, Florida; Poster **January 2013**
- Gulf of Mexico Research Initiative Annual Meeting, Mobile Alabama; Poster **January 2014**
- National Meeting of the ACS, Philadelphia, Pennsylvania; Poster **August 2016**