

Biographical Sketch

Claudia Turro

Professional Preparation

Institution	Location	Major/area	Degree & Year
Michigan State University	East Lansing, MI	Chemistry	B.S., 1987
Michigan State University	East Lansing, MI	Inorganic and Physical Chemistry	Ph.D., 1992
Columbia University	New York, NY	Bioinorganic chemistry and Spectroscopy	Postdoctoral Fellow 1992-1996

Professional Experience

2019-present	Chair, Department of Chemistry and Biochemistry, The Ohio State University
2015-present	Dow Professor of Chemistry, Department of Chemistry and Biochemistry, The Ohio State University
2014-present	Director, Center for Chemical and Biophysical Dynamics (CCBD), The Ohio State University
2011-2017	Vice Chair for Graduate Studies, Department of Chemistry and Biochemistry, The Ohio State University
2005-present	Professor, Department of Chemistry, The Ohio State University
2002-2005	Associate Professor, Department of Chemistry, The Ohio State University
1996-2002	Assistant Professor, Department of Chemistry, The Ohio State University

Ten Publications (Total = 160, h-index = 52)

- Whittemore, Tyler J.; Xue, Congcong; Huang, Jie; Gallucci, Judith C.; Turro, C. "Single-chromophore single-molecule photocatalyst for the production of dihydrogen using low-energy light" *Nature Chemistry* **2020**, Articles ASAP (DOI: 10.1038/s41557-019-0397-4).
- Manamperi, H. D.; Witt, S. E.; Turro, C. "Selective Electrocatalytic Conversion of CO₂ to HCOOH by a Cationic Rh₂(II,II) Complex" *ACS Appl. Energy Mat.* **2019**, 2, 7306-7314.
- Xue, C.; Sayre, H. J.; Turro, C. "Electron Injection into Titanium Dioxide by Panchromatic Dirhodium Photosensitizers with Low Energy Light" *Chem. Commun.* **2019**, 55, 10428-10431. (DOI: 10.1039/c9cc04677a).
- Whittemore, T. J.; White, T. A.; Turro, C. "New Ligand Design Provides Delocalization and Promotes Strong Absorption Throughout the Visible Region in a Ru(II) Complex" *J. Am. Chem. Soc.* **2018**, 140, 229-234.
- Whittemore, T. J.; Millet, A.; Sayre, H. J.; Dolinar, B. S.; White, E. G.; Dunbar, K. R.; Turro, C. "Tunable Rh₂(II,II) Light Absorbers as Excited State Electron Donors and Acceptors Accessible with Red/Near-IR Irradiation" *J. Am. Chem. Soc.* **2018**, 140, 5161-5170. (DOI: 10.1021/jacs.8b00599)
- Arora, K.; Herroon, M.; Al-Afyouni, M. H.; Toupin, N. P.; Rohrabough, T. N.; Loftus, L. M.; Podgorski, I.; Turro, C.; Kodanko, J. J. "Catch and Release Photosensitizers: Combining Dual-Action Ruthenium Complexes with Protease Inactivation for Targeting Invasive Cancers" *J. Am. Chem. Soc.* **2018**, 140, 14367-14380. (DOI: 10.1021/jacs.8b08853)
- Sayre, H. J.; Millet, A.; Dunbar, K. R.; Turro, C. "Photocatalytic H₂ Production by Dirhodium(II,II) Photosensitizers with Red Light" *Chem. Commun.* **2018**, 54, 8332-8334. (DOI: 10.1039/C8CC03631D)

8. Whittemore, T. J.; Sayre, H. J.; Xue, C.; White, T. A.; Gallucci, J. C.; Turro, C. "New Rh₂(II,II) Complexes for Solar Energy Applications: Panchromatic Absorption and Excited State Reactivity" *J. Am. Chem. Soc.* **2017**, *139*, 14724-14732.
9. Albani, B. A.; Peña, B.; Leed, N. A.; de Paula, A. B. G.; Pavani, C.; Baptista, M. S.; Dunbar, K. R.; Turro, C. "Marked Improvement of Photoinduced Cell Death by a New Tris-Heteroleptic Complex with Dual Action: ¹O₂ Sensitization and Ligand Dissociation" *J. Am. Chem. Soc.* **2014**, *136*, 17095-17101.
10. Li, Z.; David, A.; Albani, B. A.; Pellois, J.-P.; Turro, C.; Dunbar, K. R. "Optimizing the Electronic Properties of Photoactive Anticancer Oxypyridine Bridged Dirhodium(II,II) Complexes" *J. Am. Chem. Soc.* **2014**, *136*, 17058-17070.

Synergistic Activities

1. 2014 Award in Photochemistry from the Inter-American Photochemical Society and President of the Inter-American Photochemical Society (2012-14).
2. Associate Editor for the *Journal of the American Chemical Society* (2016–present).
3. Elected Chair of the ACS Division of Inorganic Chemistry (2016) and Member-at-Large 2018–2020.
4. Faculty advisor for the Student Chapter of the National Organization of Black Chemists and Chemical Engineers (NOBCCChE) at OSU since its inception, 1997-present and received the 2017 NOBCCChE Mentor on the Map Award.
5. Recipient of College of Arts and Sciences Susan B. Hartman Mentoring and Leadership Award, The Ohio State University (2014), College of Arts and Sciences Distinguished Scholar Award (2017), and Harlan Hatcher Arts and Sciences Distinguished Faculty Award (2019).

Identification of Potential Conflicts of Interest or Bias in Selection of Reviewers

Collaborators and Co-authors in the past 48 months

Christine M. Aikens (Kansas State University), Regina Akhimie (Ohio State University), Kathlyn F. Al-Afyouni (Ohio State University), Malik H. Al-Afyouni (Ohio State University), Bryan A. Albani (Owens Corning), Nicholas Ancona (Wayne State University), Karan Arora (Wayne State University), Toni Beirl (Ohio State University), Stefan H. Bossmann (Kansas State University), Brian P. Callahan (Barbara Ann Karmanos Cancer Institute, Detroit, USA), Kelsey A. Collins (Ohio State University), Brian S. Dolinar (Texas A&M University), Kim R. Dunbar (Texas A&M University), John F. Endicott (Wayne State University), Amendra Fernando (Kansas State University), Katherin L. Fillman (Ohio State University), Judith C. Galluci (Ohio State University), Mackenzie K. Herroon (Wayne State University), Matthew Huisman (Wayne State University), Pradeepkumar Jagadesan (Ohio State University), Jeremy J. Kodanko (Wayne State University), Veronica G. Lewalski (Wayne State University), Ao Li (Wayne State University), Zhanyong Li (Texas A&M University), Yao Liu (Ohio State University), Lauren Loftus (Ohio State University), Aruni P. Malalasekera (Kansas State University), Philip D. Martin (Wayne State University), Shiynath Mazumder (Wayne State University), Psaras L. McGrier (Ohio State University), Emily J. McLaurin (Kansas State University), Agustin Millett (Texas A&M University), Khalin Nisbett (Wayne State University), Bruno Pena (Texas A&M University), Izbela Podgorski (Wayne State University), Erandu Rajagurubandaram (Wayne State University), Ashley M. Rohrabough, (Ohio State University), Thomas N. Rohrabough, Jr. (Ohio State University), Savan Saha, (Texas A&M University), Hanna J. Sayre, (Ohio State University), Alexander M. Schaeffer (Ohio State University), H. Bernhard Schlegel (Wayne State University), Russell H. Schmehl, (Tulane University), Emily E. Scott (University of Michigan), Rajgopal Sharma (Wayne State University), Tej B. Shrestha (Kansas State University), Randolph P. Thummel (University of Houston), Nicholas P. Toupin (Wayne State University), Yi-Jung Tu (Wayne State University), Eryn G. White (Texas A&M University), Jessica K. White (Ohio University), Travis A. White (Ohio University), Tyler J. Whittemore (Ohio State University),

Suzanne E. Witt (Ohio State University), Congcong Xue, (Ohio State University), Rahul Yadav (University of Michigan), Jing Yu (Kansas State University)

Co-editors in the past 48 months

Eric Anslyn (University of Texas Austin), Phil S. Baran (Scripps Research Institute), Weston Borden (University of North Texas), Kara Bren (University of Rochester), Michelle L. Coote (Australian National University), Benjamin F. Cravatt (Scripps Research Institute), Paul S. Cremer (Pennsylvania State University), Lyndon Emsley (Ecole Polytechnique Federale de Lausanne, EPFL), Joseph S. Francisco (University of Pennsylvania), Jean M. Frechet (King Abdullah University of Science and Technology), Gregory Fu (California Institute of Technology), Sidney Hecht (Arizona State University), Taeghwan Hyeon (Seoul National University), William D. Jones (University of Rochester), Thomas E. Mallouk (Pennsylvania State University), Shelly D. Minter (University of Utah), Chad A. Mirkin (Northwestern University), Klaus Mullen (Max Planck Institute for Polymer Research), Eichi Nakaura (The University of Tokyo), Melanie Sanford (University of Michigan), Matthew Sigman (University of Utah), Peter Stang (University of Utah), Weihong Tan (Hunan University and University of Florida), Suzanne Walker (Harvard University), Li-Jun Wan (Institute of Chemistry, Chinese Academy of Sciences), Karen L. Wooley (Texas A&M University), Klaas Wynne (University of Glasgow, UK), Omar M. Yaghi (University of California, Berkeley), Peidong Yang (University of California, Berkeley).

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Postdoctoral Advisors: Nicholas J. Turro (Columbia University)

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Postdoctoral Advisees: Travis A. White (Asst. Prof., Ohio University), Jessica K. White (Asst. Prof., Ohio University), Malik Al-Afyouni (Research Scientist, Eastman Chemical Company), Congcong Xue (current), Eric Piechota (current), Shaoyang Lin (current).