

**Dr. Amanda Lyn Robinson**  
**(Post-doctoral Research Fellow)**

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**RESEARCH INTERESTS**

**Artificial Photosynthesis *via* Heterogeneous Systems**

- Nanomaterial elaboration (POM and MOF)
- Photo- and electrocatalysis
- CO<sub>2</sub> reduction
- H<sub>2</sub>O oxidation
- O<sub>2</sub> activation

**SUMMARY**

After a double bachelor's degree in chemistry and biology from Northern Arizona University and a master's degree focused at the interface of biology and chemistry from Université Paris Descartes (now Université Paris Cité), I have acquired a range of experience in organic synthesis, coordination chemistry, and spectroscopies (electrochemistry, NMR, Raman, EPR, ESI-MS). During my thesis at Université Paris Saclay, I was focused on using iron(II) complexes to reductively activate oxygen for the oxygenation of small molecules. Currently, as a post-doc at Collège de France, I am focused on developing heterogeneous catalytic systems for artificial photosynthesis with non-noble metal catalysts.

**PUBLICATIONS**

**2022**

- "A Tale of Two Complexes: Electro-assisted Oxidation of Thioanisole by a 'O<sub>2</sub> Activator / Oxidizing Species, Tandem System of Non-heme Iron Complexes." A. L. Robinson, J.-N. Rebilly, R. Guillot, C. Herrero, H. Maisonneuve, F. Banse. **Chem. – A Eur. J.** 2022. <https://doi.org/10.1002/chem.202200217>.