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RESEARCH INTERESTS

- Artificial photosynthesis
- Carbon dioxide utilization
- Heterogeneous catalysis
- Water oxidation
- Electrochemistry
- Inorganic synthesis
- Surface chemistry

SUMMARY

The aim of my project is to develop an electrochemical cell able to convert CO₂ and H₂O into energetic molecules such as hydrocarbons. This system, inspired by natural photosynthesis, is powered by a photovoltaic module. I focus more particularly on the development of an heterogeneous catalyst for the water oxidation reaction. This catalyst must be robust, cheap and composed of earth-abundant materials as we envision an industrial scale-up of the technology. This project is conducted in partnership with TOTAL.

EDUCATIONAL BACKGROUND

- 2018: Ecole Normale Supérieure de Paris, Diploma in Chemistry
- 2018: Masters Degree, Materials Chemistry, UPMC Paris-6 Sorbonne Université
- 2016: Bachelors Degree, Chemistry, Ecole Normale Supérieure de Paris