



Visiting Researcher

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CNRS Researcher 2014-Present
Collège de France, Paris, France
Solid-state Chemistry and Energy Laboratory

Postdoctoral researcher 2012-2014
Massachusetts Institute of Technology
Electrochemical Energy Laboratory, Prof. Yang Shao-Horn

Ph.D University of Bordeaux 2012
Materials Science and Chemistry, ICMCB Bordeaux, France

Alexis' research interests are in the understanding of physical properties of solids governing their electrochemical properties, more precisely understanding how to control the redox

properties, cationic or anionic, of transition metal oxides for their electrocatalytic properties for water splitting, CO₂ reduction, Li-ion batteries and related devices.

At MIT, Alexis' research deals with the electrochemical control of oxygen stoichiometry in transition metal oxides in order to tune their conduction properties, either ionic or electronic, as well as modify their physical properties.