## The Challenges Presented in the Synthesis of New Fluorinated Organic Linkers Samuel Dickson, Dr. Douglas Genna

Fluorinated Metal Organic frameworks have gained increase attention due to reported increase H<sub>2</sub> and CO<sub>2</sub> storage that may be caused by the exposed fluorine atoms. However, the synthesis of fluorinated organic molecules have proven to be a significant challenge do to unique electronegative and inductive effects that are not present in the nonfluorinated analogues. The present study has set to synthesize three new fluorinated organic linkers to be used for F- MOF synthesis and the challenges presented in each case.

Fluorinated Metal



