

Centennial Honors College
Thomas E. Helm Undergraduate Research Day 2024

ABSTRACT

Major: Biology

Poster

Faculty Mentor(s): Brian Bellott

Synthesis of Fe₂S₃

Berni Servil

Iron (III) sulfide is a known iron binary, but currently all known structures of iron (III) sulfide degrade slowly at room temperature. The purpose to this work is to see if a stable form of iron (III) sulfide can be synthesized by high temperature solid state methods. This poster will discuss the process of synthesizing the material and the characterization methods currently used to determine if iron (III) sulfide has been synthesized.