# CHRIST U research group

# Acknowledgements

Distinguished and Drago Professor George Christou's Research Group is a synthetic, bioinorganic and physical inorganic group. Our main research interests are in metal-oxo coordination chemistry, focused on the synthesis and characterization of polynuclear metal-oxo clusters (complexes with more than two metal centers) with relevance to such areas as molecular nanoscience, catalysis, supramolecular chemistry, and molecular magnetism.



are the largest Mn/O clusters and SMMs to date.

Tasiopoulos, A. et al. Angew. Chem., 2004, 43

# **Transition Metal and Lanthanide Molecular Clusters:** Syntheses, Properties and Nanoscience Applications



magnetic subunits can be measured through EPR and DPV techniques, respectively.

Synthesis: Aerobic conditions in solution, various temperatures, crystallization techniques, and organic synthesis for complex ligands, where necessary.

Characterization: FT-IR, paramagnetic NMR, UV-vis spectroscopy, electrochemistry,

## Mukherjee, S. et al. PNAS, **2011**, 109 (7), 2257–2262





Zhang, C. et al. *Science* **2015**, *348* (6235), 690–693