

ChemFinity Technologies, Inc.

Modular sorbents for low-emissions refining

Company Information

Location: Brooklyn, NY, U.S.

Employees: 7

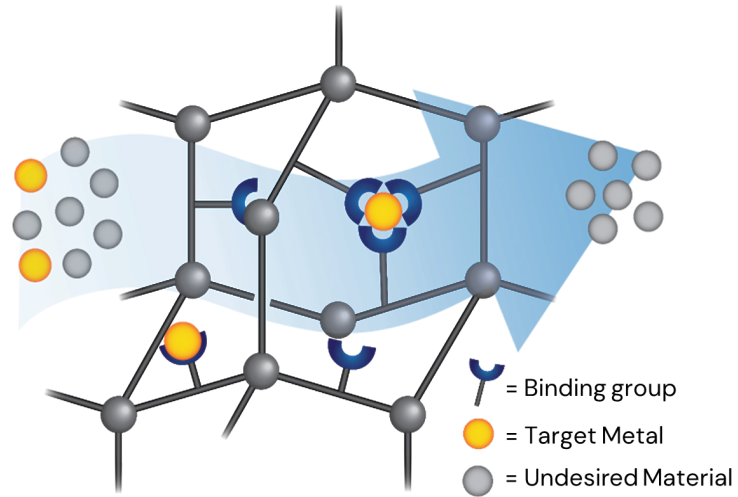
Website: chemfinitytech.com

Key Project Personnel

- Dr. Adam Uliana
 - Co-founder & *CEO*
- Dr. Ever Velasquez
 - Co-founder & *CTO*
- Dr. Maria Paley
 - *Director of Laboratory Operations*
- Dr. Ravindra Revanur
 - *Director of Product Development R&D*
- Dr. Jeffrey Long
 - *Advisor*

Technology Summary and Takeaway

The development of highly-selective, robust, and tunable filter materials for efficient critical and value-added metal extraction from electronic scrap.



Our sorbent materials enable single-path metal extraction from dilute waste streams with decreased emissions for metal recycling.

Project Goals

- Obtain representative e-waste feedstock
- Develop a robust metal leaching process for e-waste feedstocks
- Detailed characterization e-waste leachate metal content
- Demonstrate selective adsorption of Pt, Au, and Pd with PPN sorbents
- Translate adsorption process to TEA and LCA with community impacts

Project Impact

- New extraction process with record efficiency for Pt, Au and Pd recovery
- Enabling increased domestic supply of CMMs and value-added products from e-scrap recycling
- CO₂ emission reduction by at least 99% compared to traditional metal extraction

