



Mechanical Engineering Assistant Professor Wenjun Cai received a National Science Foundation CAREER Award for "Effects of Alloy Concentration on the Tribocorrosion Resistance of Al-TM Supersaturated Solid Solutions"

Tribocorrosion is a material degradation process caused by the combined effects of wear and corrosion. It is a research area that emerged recently, driven by increased demand for wear- and corrosion-resistant materials from biomedical implants, nuclear power generation, marine and offshore industries, etc. The complexity of tribocorrosion lies in the fact that the chemical and mechanical attacks act synergistically to cause accelerated failure. [Read more.](#)

Professor Cai's research interests are metallurgy, mechanical behavior, nanomaterials, materials characterization and tribology. She received her PhD at University of Illinois at Urbana-Champaign and also did a Postdoc at Massachusetts Institute of Technology.