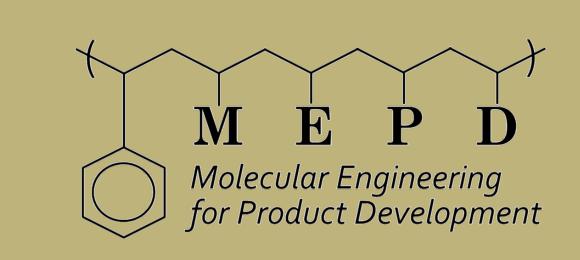


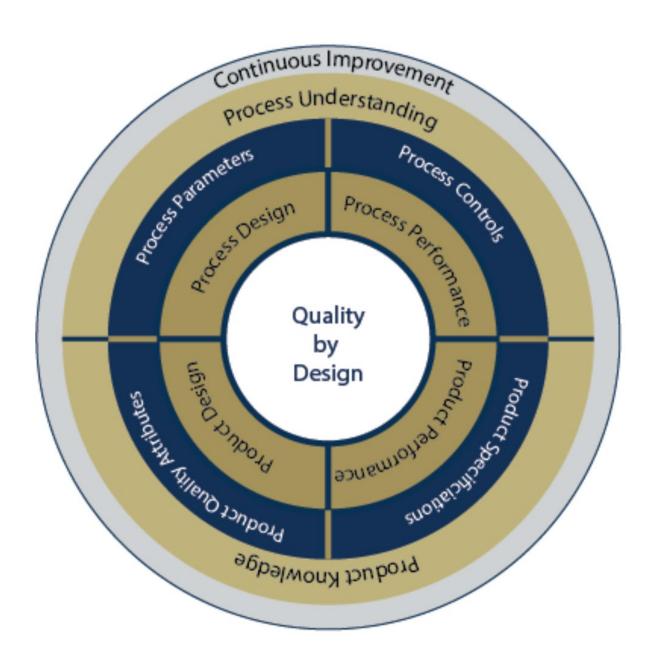
Brettmann Research Group

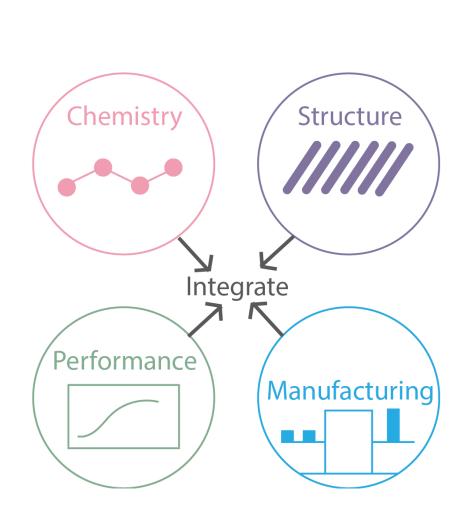
PI: Dr Blair Brettmann

Jaehyun Cho, Mona Amrihesari, Alexa Dobbs, Haley Carroll, Shiqi Wei, Harsh Verma, Matteo Palesati, Preksha Vichare, Emad Renfroe, Laurel Hilger, Joaquin Hernandez, Josh Shippee



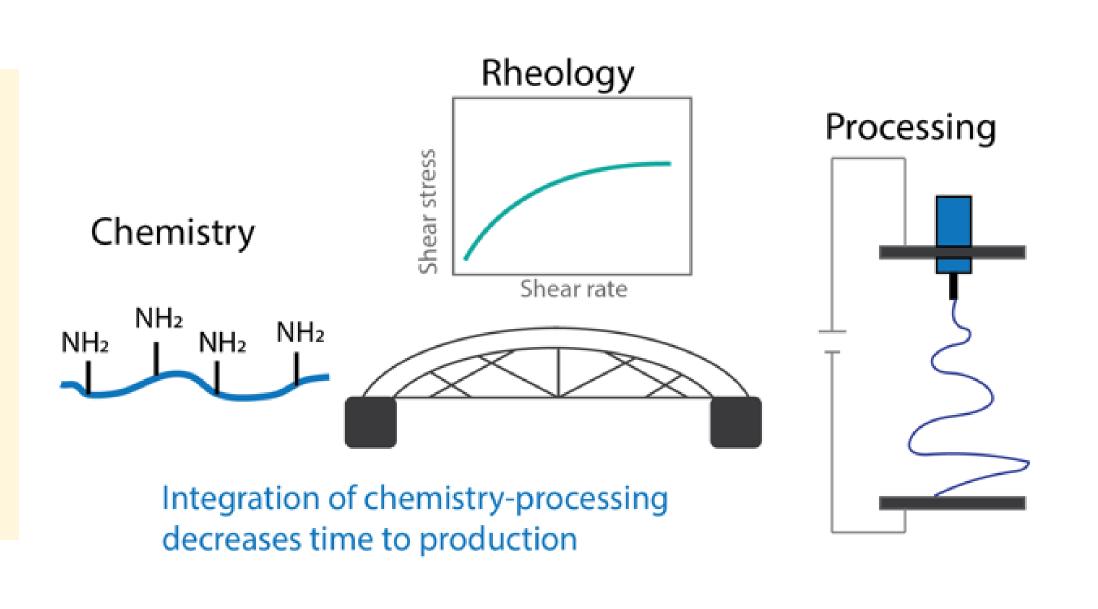
Product and Process Development for complex systems





Research Focus:

Link molecular to micron scale phenomena to processing and multicomponent complex mixtures to enable rapid product development



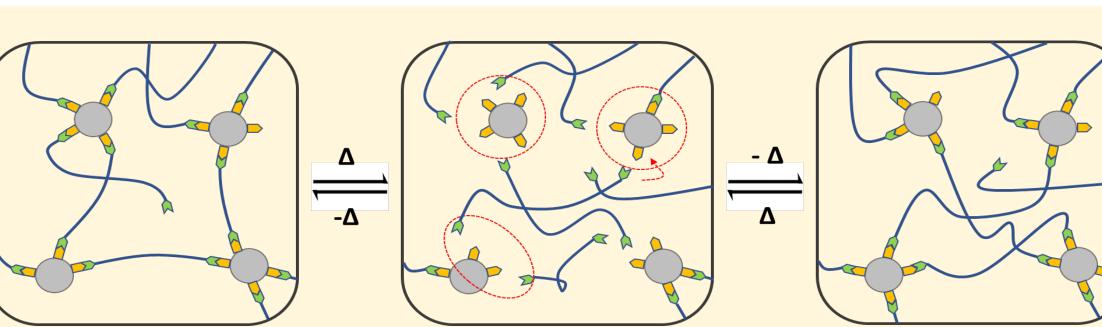






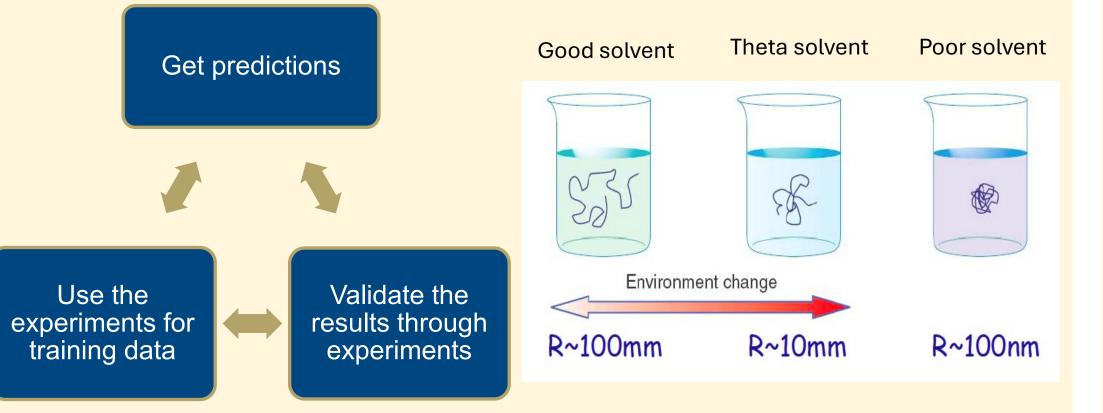
Blair Brettmann

POLYMER SUSTAINABILITY



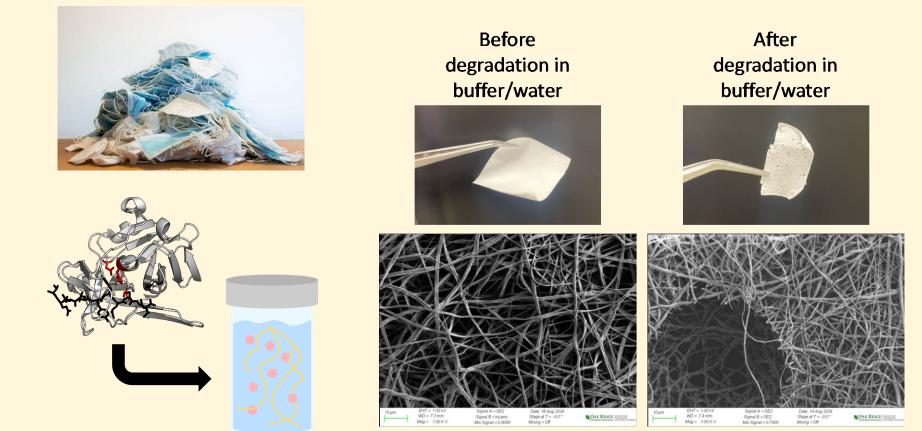
Polymer composites

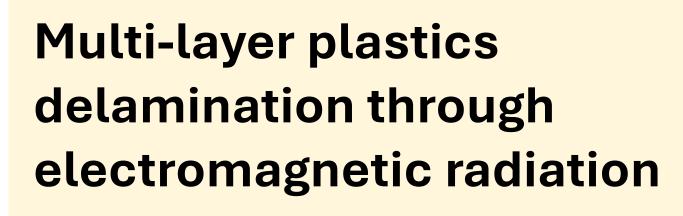
Design of chemically recyclable and depolymerizable polymers

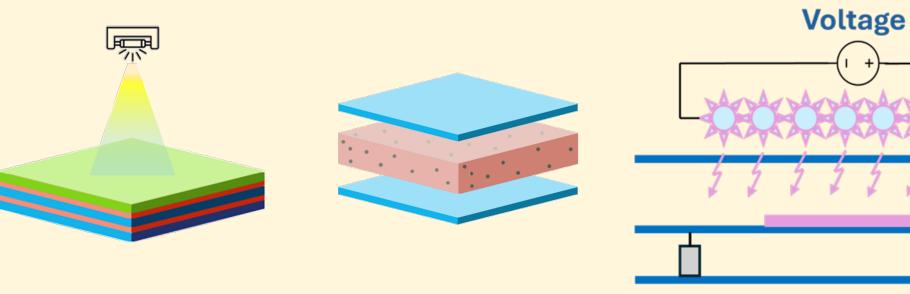


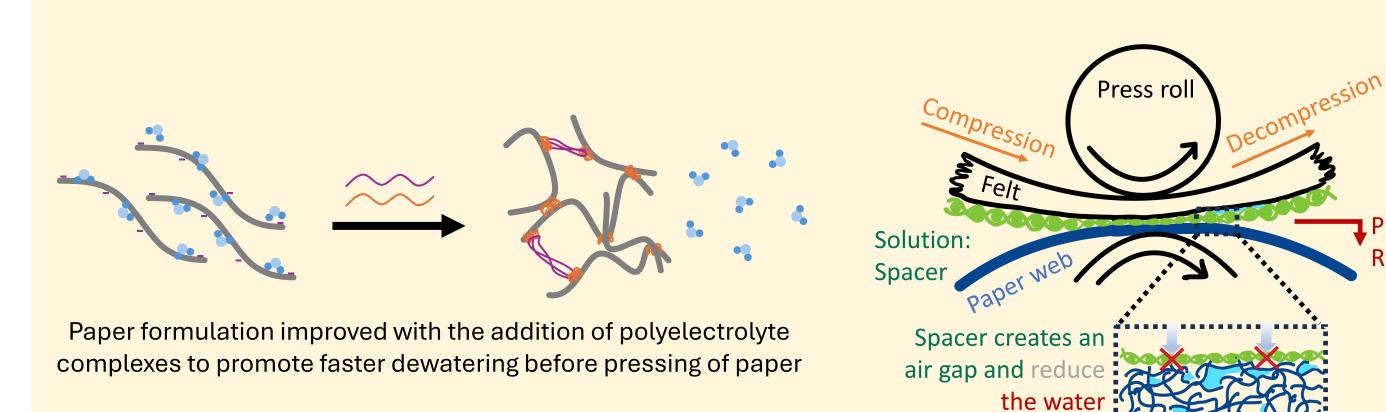
Prediction of polymer solubility through machine learning

Sustainable materials and designs for advanced electrospinning









Improving the dewatering efficiency of the industrial paper manufacturing process

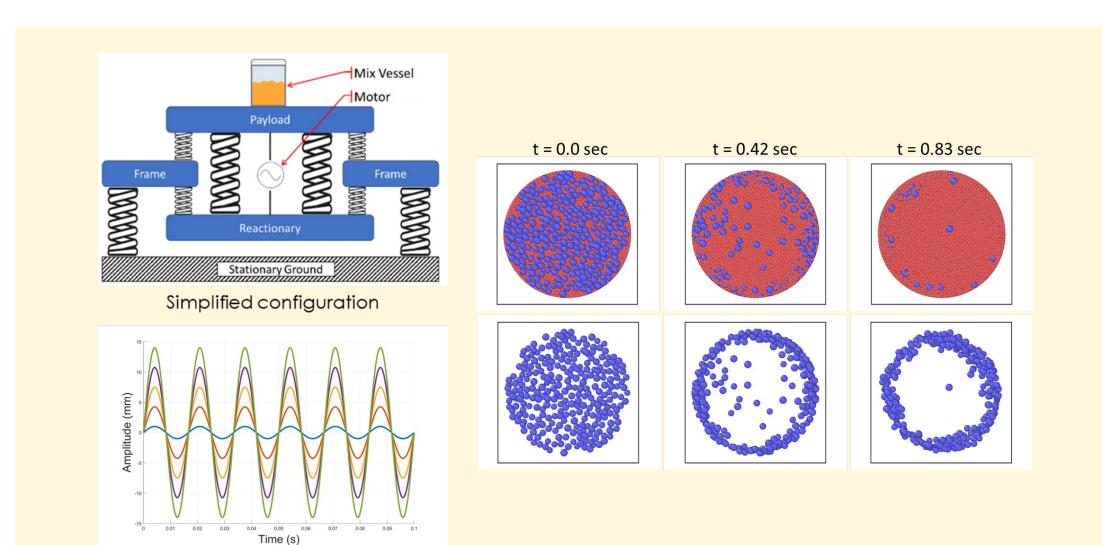
250 -1500 nm emission

UV/NIR filters

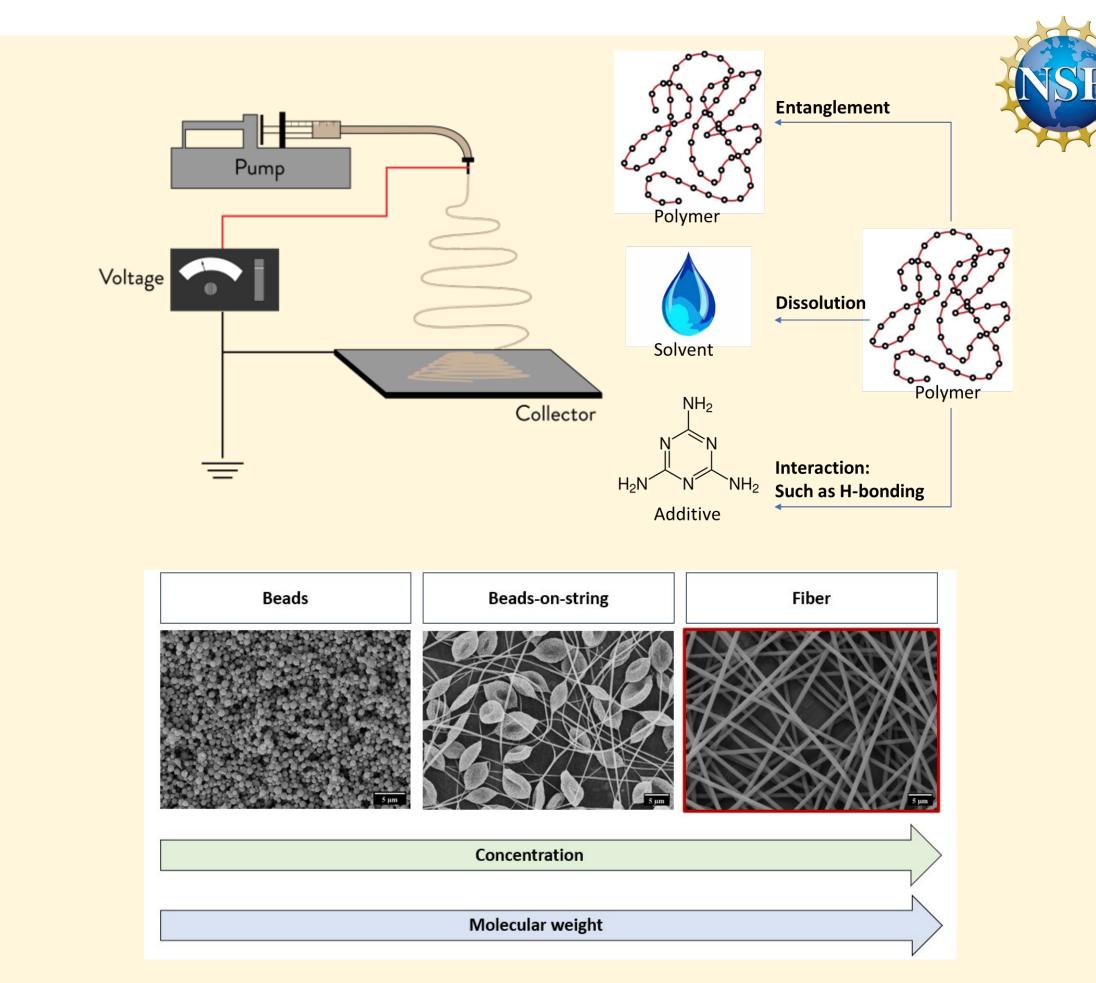
ENERGY Energy Efficiency & Renewable Energy

Tray distance

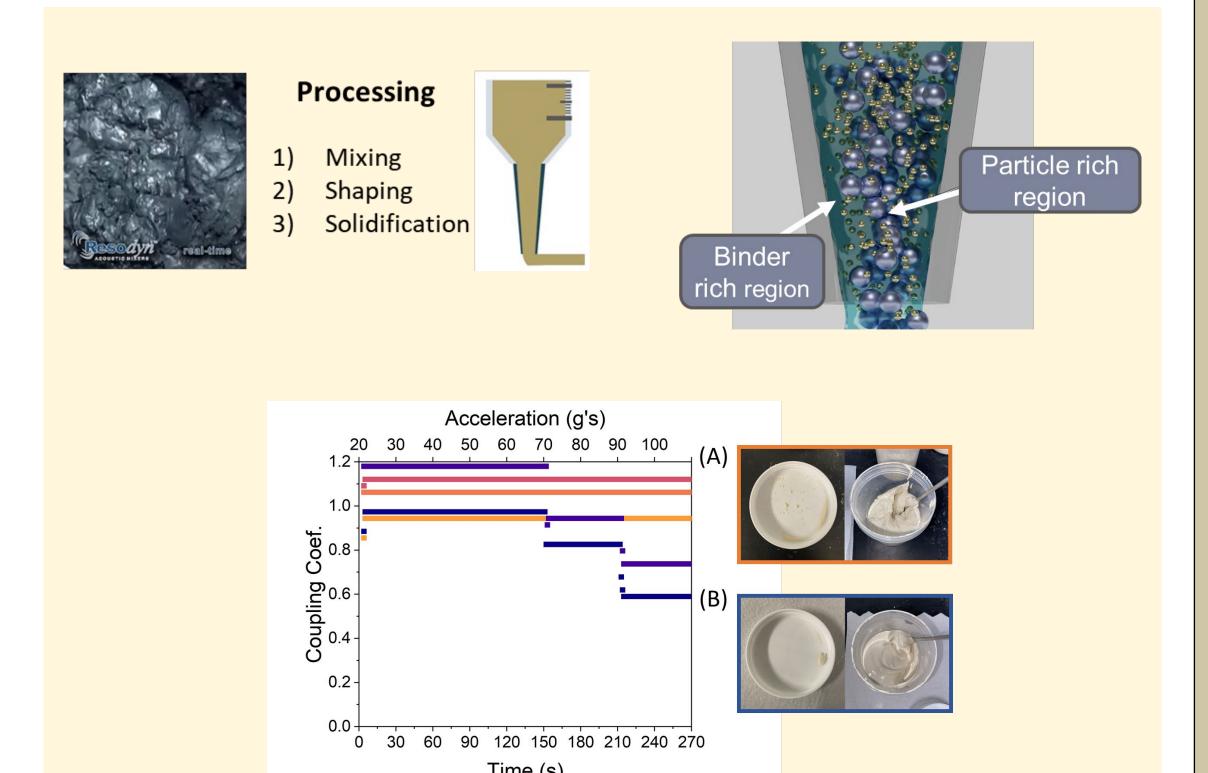
SOFT MATERIALS & FUNCTIONAL COMPOSITES



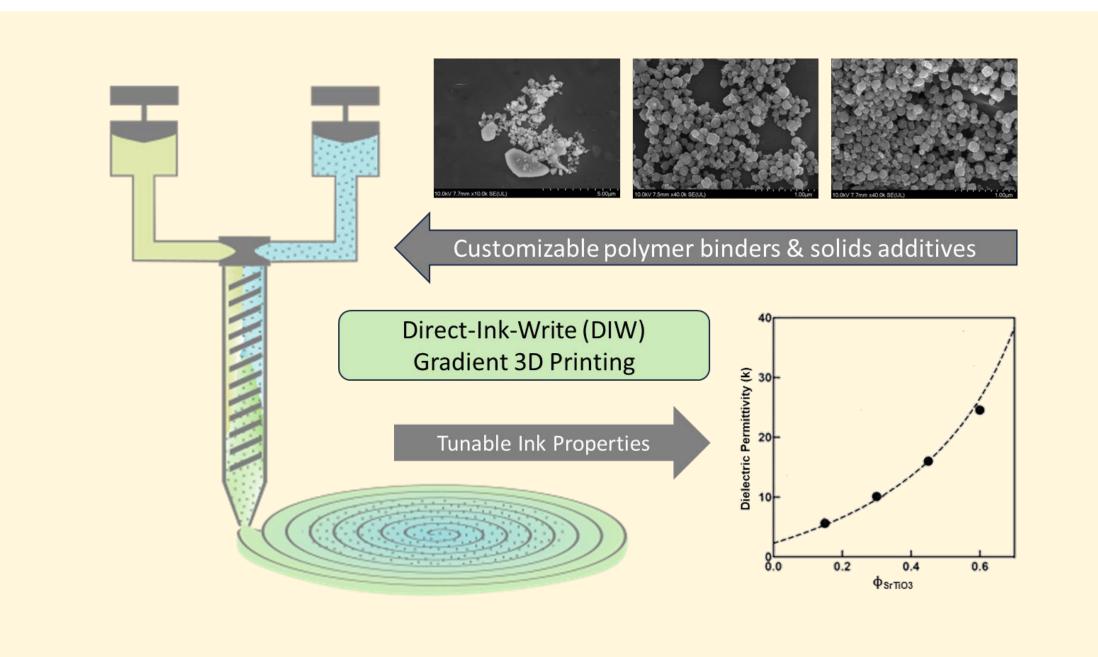
Segregation and agglomeration of granular materials in a resonant acoustic mixer



Tailoring solution variables to electrospin the "unelectrospinnable"



Formulation and processing relationships for functional composites



Enhancing polymer nanocomposite inks for novel radio frequency devices