

Clancy group: 2016 projects– Organic electronics

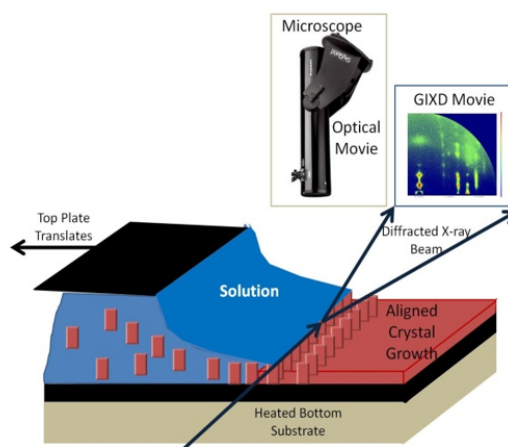
3. Roll-to-roll processing of all-organic solar cells (formerly Lukose, Bobbili- both graduated)

Shear organic polymeric semiconductors while crystallizing them.

- Results differ depending on solvent and process conditions
- What is the underlying mechanism?
- Collaboration with Zhenan Bao (Stanford) completed joint DOE funding

New:

- Post-processing rinse with alcohol improves solar cell efficiency. Why?
- Computational study of the influence of alcohol on charge transport.



Computational Tools:

- Electronic structure calculations
- Molecular Dynamics (mainly)