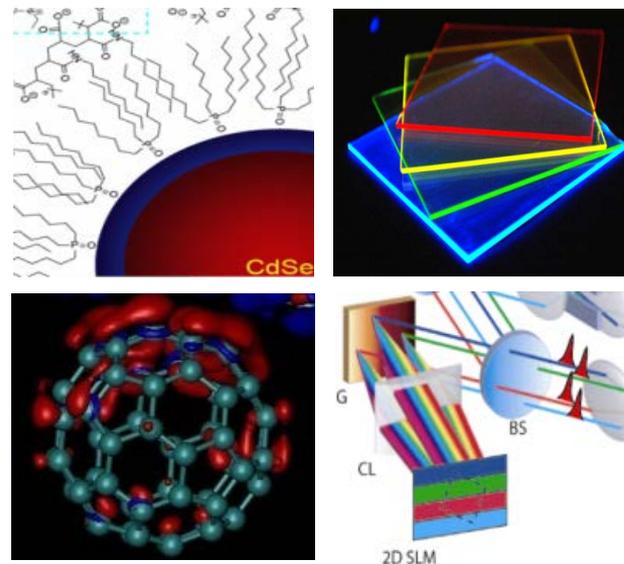


## Electronics vs Excitonics

Excitons are characteristic of low-cost materials for solar cells and solid state lighting. We seek to supersede traditional electronics with devices that use excitons to mediate the flow of energy.



## RESEARCH PLAN AND DIRECTIONS

We address the two grand challenges in excitonics:

- (1) Understand, control and exploit exciton transport
- (2) Understand and exploit the energy conversion processes between excitons, electrons, and photons.

Our advances will be applied to low-cost solar cells and solid state lighting.