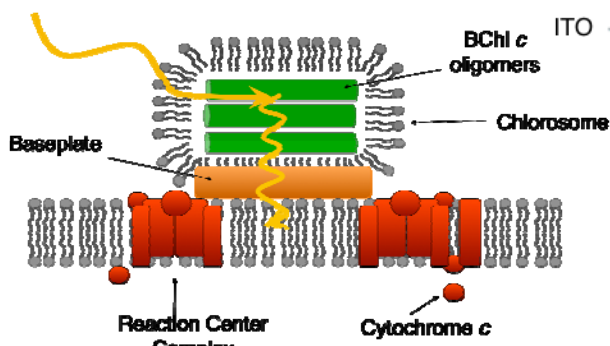
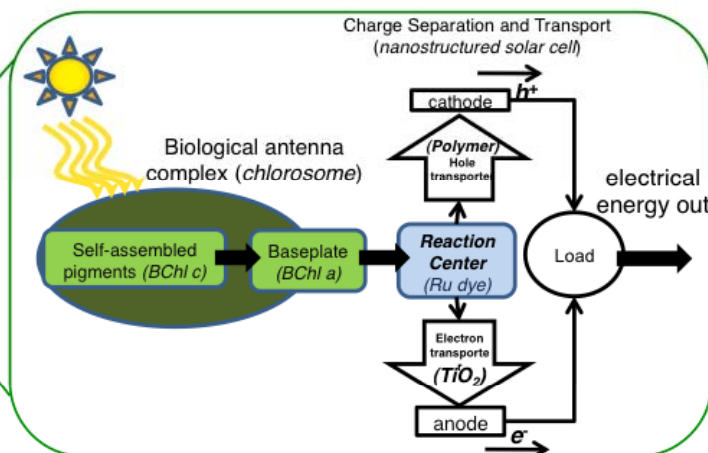
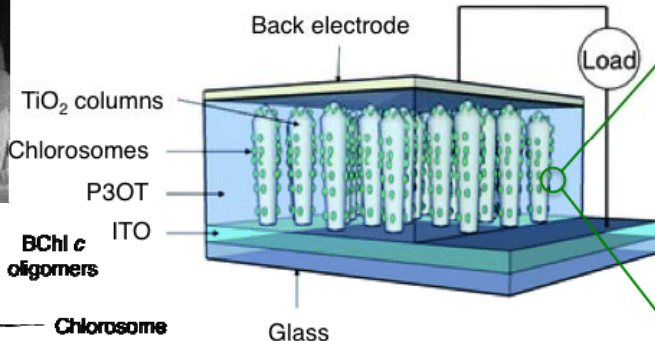
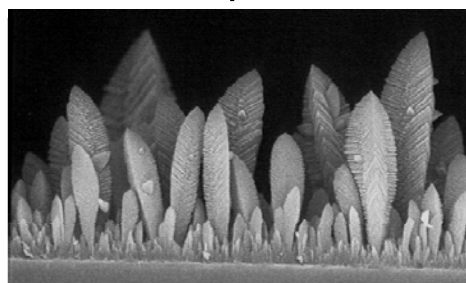
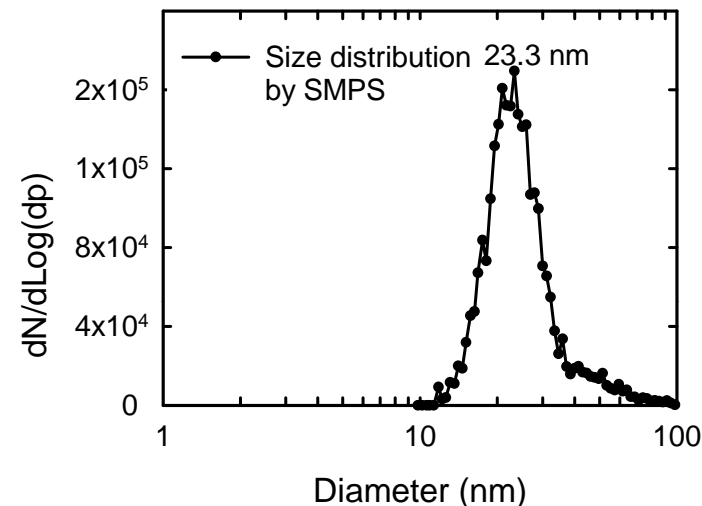


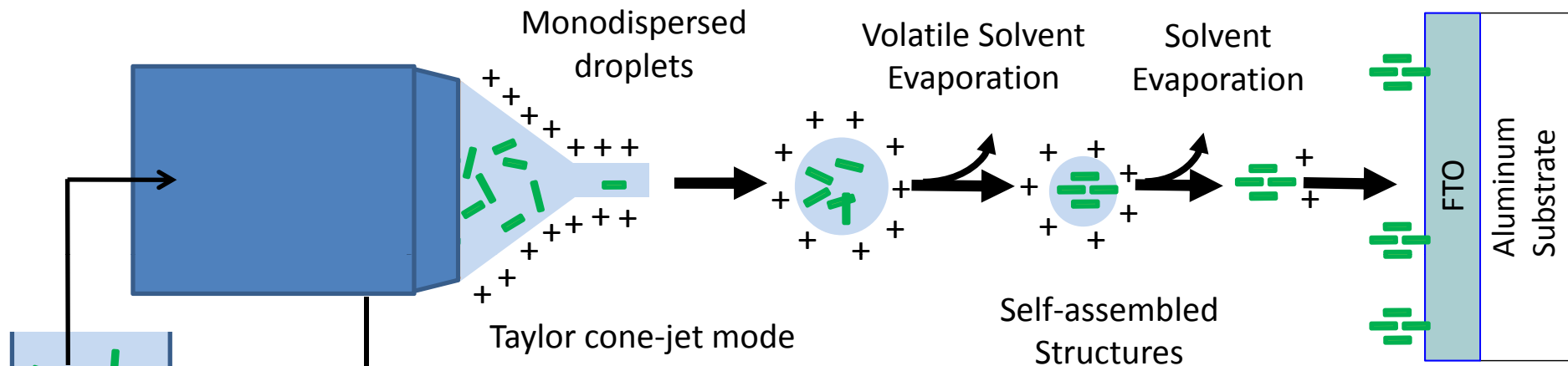
Bio-hybrid solar cells

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Tandeep Chadha
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Vivek Shah
Dr. Wei-Ning Wang
Dr. Pratim Biswas

- Understanding energy transfer from antenna to various surface modalities aided by aerosol processing
- Real time aerosol instrumentation for characterization of antenna structures
- Bio-hybrid solar cells are fabricated by depositing chlorosomes onto TiO_2
- 30 fold increase in IPCE is observed at peak absorption wavelength

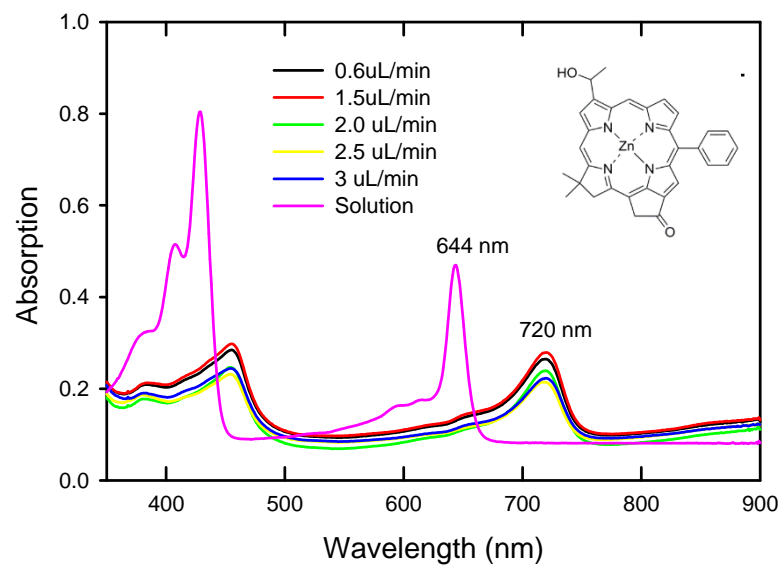


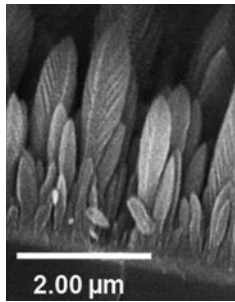
Aerosol Routes for Controlled Self-assembly



Pigment Solution

- Natural light harvesting antennas are cumbersome to extract. Size and absorption cannot be tuned
- Make chlorosome like structure synthetically using aerosol based self-assembly





Overview of solar research

