Wasielewski Group Research on Solar Energy Conversion

Artificial Photosynthesis
For Solar Fuels

Goal: Develop systems for efficient, carbon neutral formation of hydrogen and carbon-based liquid fuels.

Organic Photovoltaics
For Solar Electricity

Goal: Develop efficient, easily manufactured solar cells based on self-assembly of low-cost organic materials.

Light-driven electron donor-acceptor building blocks self-assemble into ordered structures to power catalysts for fuels formation or to directly collect charges for electricity production.