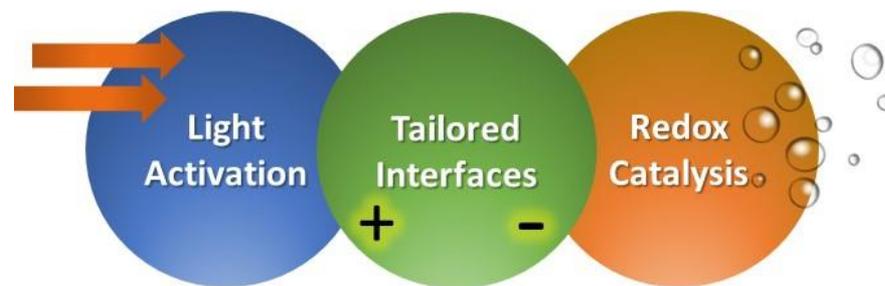


# Center for Light Energy Activated Redox Processes (LEAP)

Michael R. Wasielewski (Northwestern University); Class: 2018-2020

**MISSION:** To develop the fundamental scientific understanding needed to use efficient light-driven multi-electron redox processes to power energy-demanding chemistry.



<http://www.LEAP-Center.org>

## RESEARCH PLAN

Within the LEAP Center, researchers will:

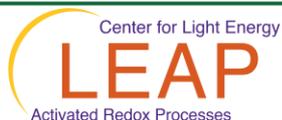
- Produce charges at high potentials with new light absorbers
- Control charge flow from light absorbers to catalysts
- Perform energy-intensive reactions with new catalysts

Reactions LEAP researchers will target are power-critical energy storage and chemical synthesis reactions such as water splitting, carbon dioxide and nitrogen reduction, and carbon-carbon bond formation.



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