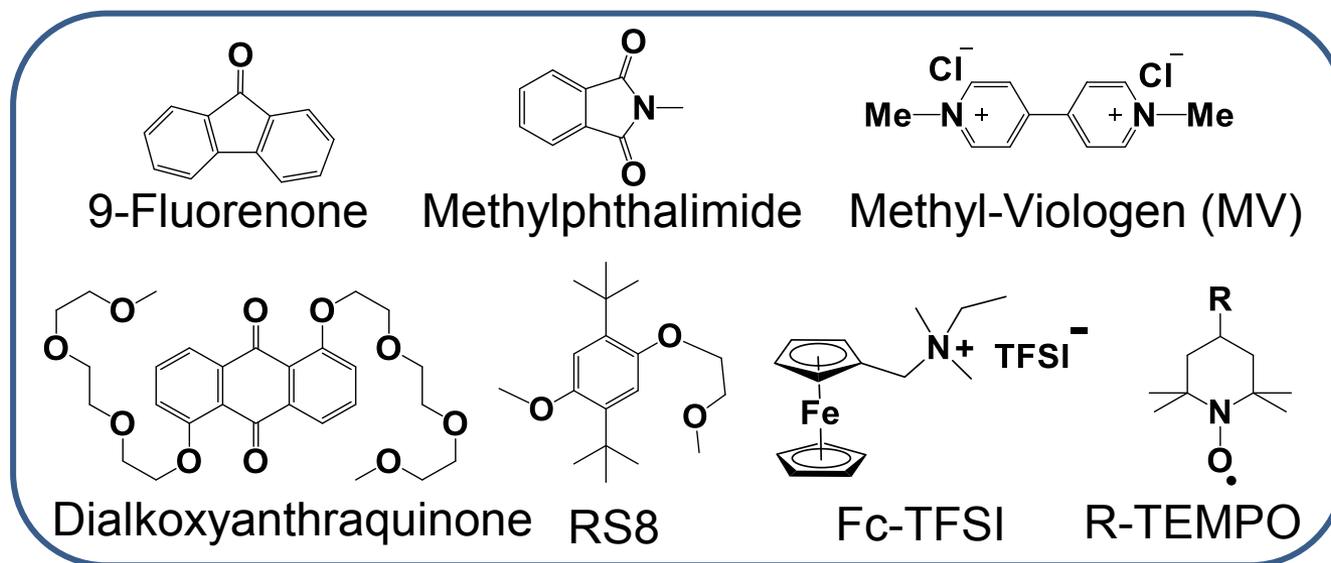


Organic Redox Flow Batteries

Xiaoliang Wei @ Pacific Northwest National Laboratory

- Organic redox materials tested in redox flow batteries
 - Nonaqueous electrolytes
 - Aqueous electrolytes
- Key factors to consider: Solubility, redox potential, stability, cost, compatible electrolyte



Organic Redox Flow Batteries

Xiaoliang Wei @ Pacific Northwest National Laboratory

Our accomplishments:

- ❖ Nonaqueous Li/organic: high voltage and energy density
- ❖ Nonaqueous organic/organic: high current, good cyclability, performance degradation mechanism
- ❖ Aqueous organic/organic: stable materials, good cyclability

