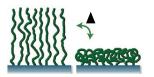
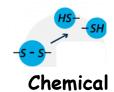
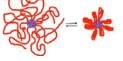
### Stimuli responsive materials

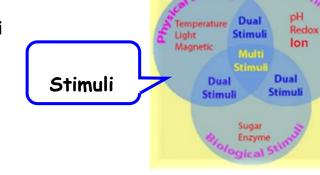
Polymer which undergoes physical, chemical or conformational changes in response to external stimuli

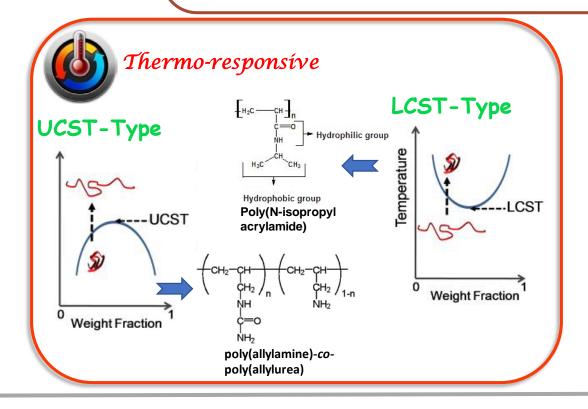


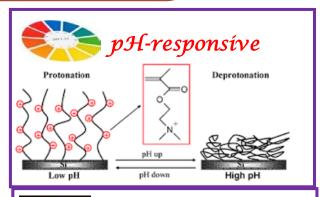






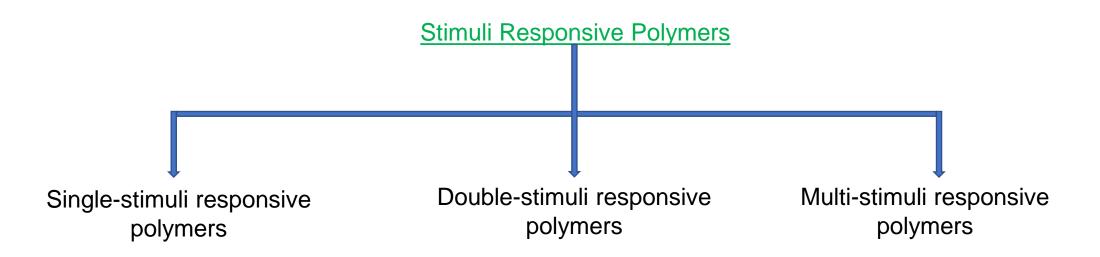








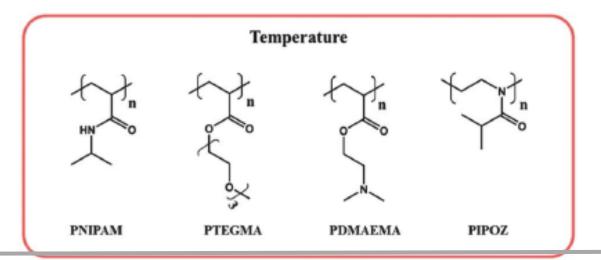
# Stimuli responsive polymers



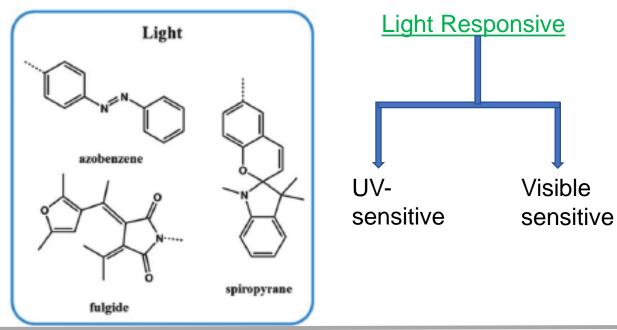
# Singly stimuli responsive polymers

- 1. Temperature Responsive
- 2. Light Responsive
- 3. Redox-activity Responsive
- 4. pH Responsive
- 5. Chemo-Responsive

1. Temperature Responsive Polymers

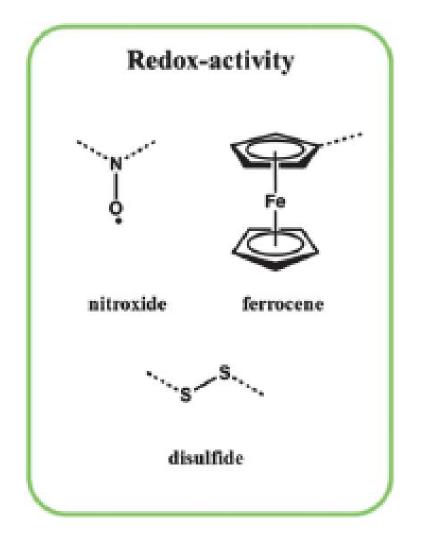


2. Light Responsive

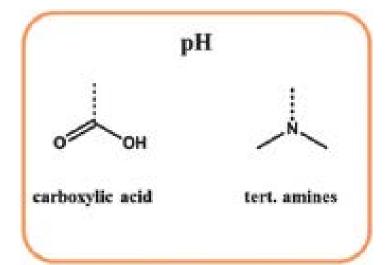


# Single stimuli responsive polymers

#### 3. Redox-activity Responsive



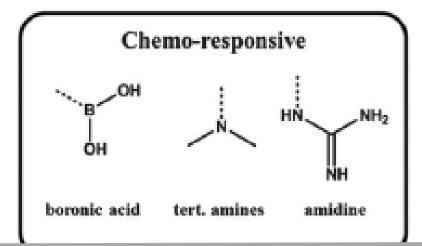
#### 4. pH Responsive



Example of pH Responsive Polymers

- 1. Poly( acrylic acid) (PAAc)
- 2. Poly( methacrylic acid) (PMAAc)

#### 5. Chemo-Responsive



Sensitive upon chemical changes in the environment.