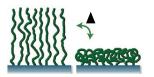
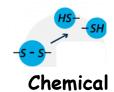
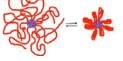
Stimuli responsive materials

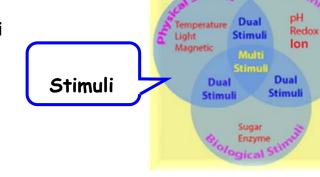
Polymer which undergoes physical, chemical or conformational changes in response to external stimuli

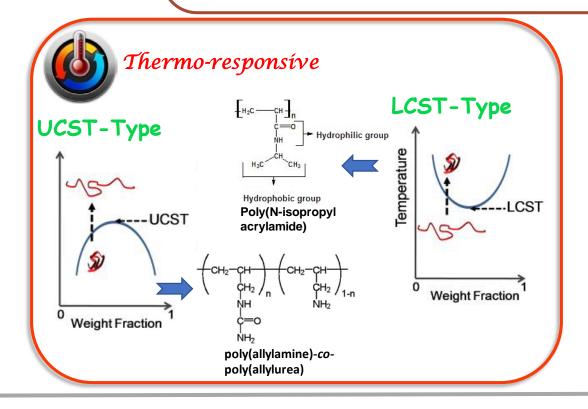


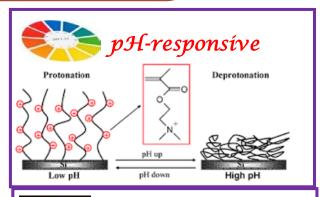






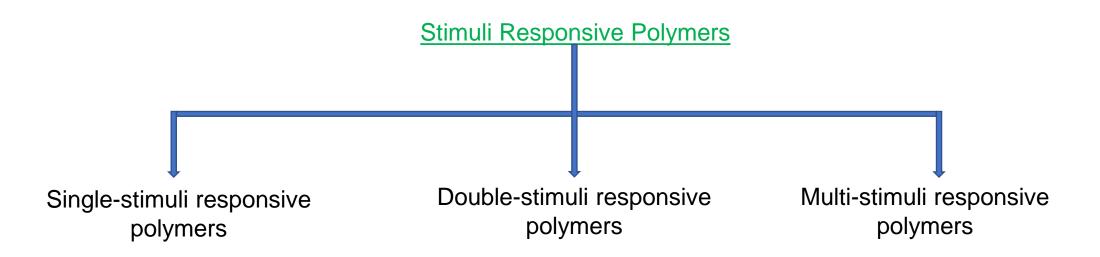








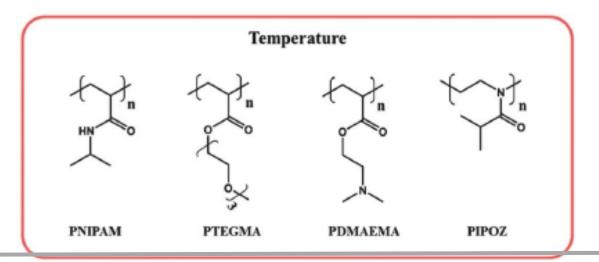
Stimuli responsive polymers



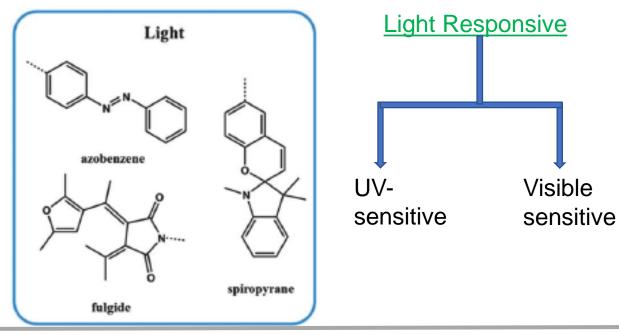
Singly stimuli responsive polymers

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

1. Temperature Responsive Polymers

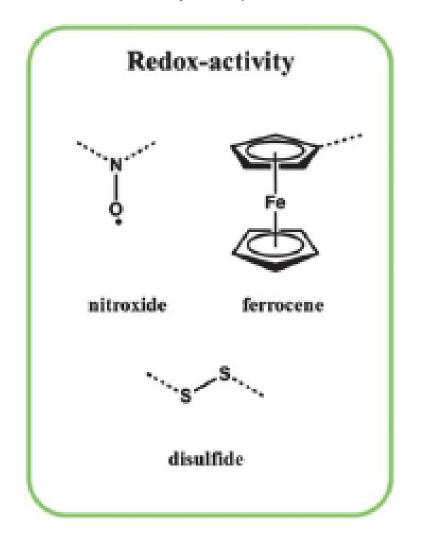


2. Light Responsive

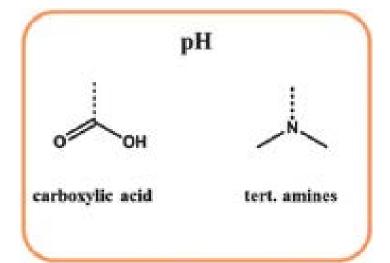


Single stimuli responsive polymers

3. Redox-activity Responsive



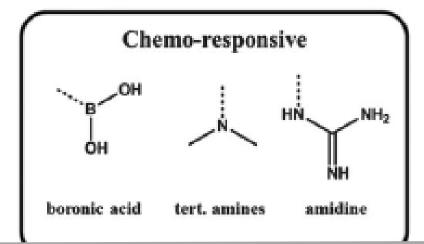
4. pH Responsive



Example of pH Responsive Polymers

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

5. Chemo-Responsive

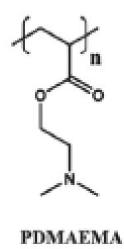


Sensitive upon chemical changes in the environment.

Double stimuli responsive polymers

- 1. Thermo and pH-responsive polymers
- 2. Thermo and light-responsive polymers
- 3. Thermo and redox-responsive polymers
- 1. Thermo and pH-responsive polymers

Example:- PDMAEMA



These materials attracted great attention in the field of drug delivery