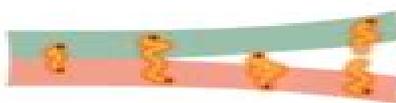


Functional Binders



1. High mass loading

- **Adhesion** → Stronger interfacial interaction (e.g. hydrogen bond, Coulombic attraction, π - π stacking)
- **Strength** → Physical or chemical crosslink (e.g. double helix, or organic and inorganic crosslinker))



Layer detachment



Layer cohesion

2. Drastic volume change

- **Disperse stress** → Sacrificial bonds & dendrimers
- **Buffer stress** → High elasticity and toughness
- **Overcome repeated expansion and contraction** → Self-healing ability from reversible interaction



Electrode delamination



Particle pulverization

3. High voltage

- **Inhibit migration of TM ions** → Polar and electron-rich functional groups (e.g. $-\text{CN}$)
- **Scavenge free radical and reactive oxygen** → Piperidine-based polymer



Electrode-electrolyte layers

4. Large electric impedance

- **Conjugate polymeric backbone** → Polyfluorene, polythiophene, polyaniline, polypyrrole
- **Graft conductive fragment** → Pyrene

5. Large ionic impedance

- **Decrease crystallinity** → Increase graft degree
- **Graft flexible or ionized fragments** → Ethylene oxide or lithium sulfonate and lithium carboxylate



6. Thermal safety

- **Enhance thermal stability** → Inorganic binder & polyimide-based binder
- **Flame-retardant binder** → Rich in N and P elements (e.g. phosphazene)



7. Compatibility in special process

- **Aqueous binder** → Polar and easy to form hydrogen bonds (e.g. $-\text{OH}$, $-\text{COOH}$, $-\text{NH}_2$)
- **Weak-polarity binder** → Alkane and arene
- **Binder for solvent-free electrodes** → Thermal dispersibility



The High Binders

Michal Rosen-Zvi



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