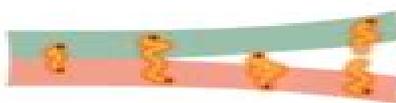


Functional Binders



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

J Dewey



The High Binders:

Decoding **The High Binders**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**The High Binders**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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